

PEOPLES GAS PITNEY COURT  
COOK  
CHICAGO, ILLINOIS  
ILN#000510196  
LPC#0316310037  
SUPERFUND/ HRS



REMEDIAL RESPONSE BR. 2  
FEDERAL FACILITIES

## CERCLA

### ABBREVIATED PRELIMINARY ASSESSMENT



Illinois Environmental  
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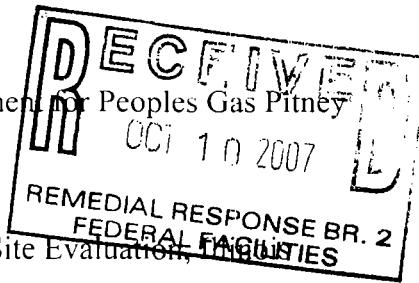


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## SIGNATURE PAGE

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## **ABBREVIATED PRELIMINARY ASSESSMENT**

**for:**

**Peoples Gas Pitney Court Former MGP  
LPC #0316310037  
ILN000510196**

**PREPARED BY:**

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
BUREAU OF LAND  
DIVISION OF REMEDIATION MANAGEMENT  
OFFICE OF SITE EVALUATION**

**January 7, 2008**

## **FIGURES**

- Figure 1.....Site Location Map
- Figure 2.....Site Map
- Figure 3.....4-Mile Radius Map
- Figure 4.....15-Mile Surface Water Map
- Figure 5.....Burns & McDonnell Excavation Map

## **APPENDICES**

- Appendix A ..... Illinois EPA Sample Photographs
- Appendix B ..... USACE 2005 Sediment Data & Figure
- Appendix C ..... BMcD 2006 Sediment Data & Figure
- Appendix D ..... Abbreviated Preliminary Assessment Checklist

## TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
<b>1.0 INTRODUCTION.....</b>	<b>1</b>
<b>2.0 SITE BACKGROUND .....</b>	<b>2</b>
2.1 Site Description .....	2
2.2 Geology.....	3
2.3 Site History.....	5
2.3.1 Previous Investigations and Actions .....	6
2.4 Regulatory Status.....	9
<b>3.0 FIELD INSPECTION ACTIVITIES.....</b>	<b>10</b>
3.1 Field Inspection .....	10
<b>4.0 POTENTIAL SOURCES .....</b>	<b>10</b>
4.1 Contaminated Soil.....	11
4.1 Contaminated Ground Water.....	12
<b>5.0 PATHWAY DISCUSSIONS.....</b>	<b>12</b>
5.1 Ground Water.....	13
5.2 Surface Water .....	16
5.3 Soil Exposure .....	18
5.4 Air Route .....	19
<b>6.0 SUMMARY.....</b>	<b>20</b>
<b>REFERENCES.....</b>	<b>22</b>

## 1.0 INTRODUCTION

On April 11, 2007, the Illinois Environmental Protection Agency's (Illinois EPA) Office of Site Evaluation was tasked by the United States Environmental Protection Agency (U.S. EPA) Region V to conduct an Abbreviated Preliminary Assessment at the former location of the Pitney Court Station coal gasification site at 3052 Pitney Court, Chicago Illinois. The Pitney Court Station property is located in Section 29, Township 39 north, Range 14 east, Third Principal Meridian. The latitudinal and longitudinal coordinates of the property are 41.83840 north, -87.66250 west.

The National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR Part 300) requires that a Preliminary Assessment be performed on all sites entered into the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) within twelve months of their entry into the system. The assessment performed at Pitney Court is reported in a more direct, condensed format called an Abbreviated Preliminary Assessment, which is considered to be equivalent to a Preliminary Assessment Report.

A Preliminary Assessment is the initial step in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) investigative process that utilizes a limited-scope investigation and collects readily available, previously documented information. The CERCLA Preliminary Assessment is designed to distinguish between sites that pose little or no threat to human health or the environment, and those that may require further investigation. The CERCLA Preliminary Assessment also supports emergency response or time critical removal activities, fulfills public information needs, and generally furnishes appropriate information about the site early in the assessment

process. Again, the Abbreviated Preliminary Assessment format used in this assessment and report is considered equivalent to a Preliminary Assessment.

If the findings of the Abbreviated Preliminary Assessment determine that further investigation is warranted, the site will continue to progress through the CERCLA investigative process, and receive a CERCLA Site Inspection. The CERCLA Site Inspection will evaluate the extent to which a site presents a threat to human health or the environment. The Site Inspection evaluation may be accomplished by the collection and analysis environmental media and waste samples to determine whether or not hazardous substances are present at the site and if they are migrating to the surrounding environment.

The Site Inspection will provide information necessary to help determine if the site qualifies for possible inclusion on the National Priorities List, or if it should receive a No Further Remedial Action Planned (NFRAP) designation. At any time throughout the Superfund investigative process, the site may be assigned a NFRAP designation or be referred to another state or federal clean-up program, or recommended for further investigation. The Preliminary Assessment is performed under the authority of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) commonly known as Superfund.

## 2.0 SITE BACKGROUND

### **2.1 Site Description**

The Pitney Court Station Site is located at 3052 Pitney Court at the southwest corner of the intersection of Archer Avenue and Pitney Court in Chicago, Cook County, Illinois.

The property is located in area with mixed residential, commercial, and industrial property uses. The "L" shaped property is owned by Peoples Gas Light and Coke and is approximately 4.8 acres in size (Burns). The site is bordered to the northwest by Archer Avenue, to the northeast by Pitney Court and 31st Street, to the east by Benson Street, to the south by Chicago Plating Inc., a chrome plating facility, and to the west by the South Fork of the South Branch of the Chicago River (USEPA, POLREP 1). Residential areas are adjacent to the site (within 200 feet) to the northeast across Pitney Court, and east, across Benson Street. Although several public schools are within several blocks of the site, no schools or day care facilities are within 200 feet of the property. The site is currently undergoing remediation and is covered by limestone gravel in areas that are not undergoing excavation. A fence surrounds the site on all sides with the exception of the western side of the facility which is bounded by the South Fork of the South Branch of the Chicago River (also known as "bubbly creek") by some of the local population.

The site is generally flat and "urban infrastructure, including paved sidewalks, streets and parking lots, buildings and combined sewer systems control local surface water flow in the area" (Burns). Regionally, the land slopes downward toward the west into the South Fork of the South Branch of the Chicago River. There are no permanent above-ground structures on the site. Figure 1 of this report shows the location of the site and Figure 2 shows an aerial photo of the site.

## **2.2 Geology**

Published information regarding the regional geology of the Chicago area indicates that bedrock formations underlying glacial drift consist of sedimentary rocks formed by the advance and retreat of shallow seas across northern Illinois. A structural high known as the Kankakee Arch controls the orientation of sedimentary rock units in the Chicago

area, which have a gentle regional dip to the east and south of about 10 feet per mile (Larson, et. al., 1959). Sedimentary rock formations underlying glacial drift in the Chicago area consist primarily of Silurian aged dolomites. The Silurian dolomites are divided into two series, the Alexandrian Series and the Niagaran Series. The strata are almost entirely dolomite that varies from extremely argillaceous, silty, and cherty to exceptionally pure (Willman, 1971). The Silurian dolomites reach a maximum thickness of nearly 500 feet in the southeastern part of the region. Both Ordovician and Cambrian aged sedimentary rocks are present beneath the Silurian dolomites. The Ordovician system consists primarily of dolomite and limestone formations; however, some sandstone units are present. The Cambrian system is largely sandstone in the lower half, and the upper half is dolomite, sandy dolomite, sandstone, and siltsone (Willman, 1971).

Glacial drift thickness in the Chicago area may be less than 50 feet thick, or between 50 feet and 200 feet thick (Piskin and Bergstrom, 1975). This may in part be due to existence of various east-west trending bedrock valleys that are directed toward lake Michigan (Larson, et. al., 1959). The Quaternary Deposits of Illinois map (Lineback, 1979) indicates that glacial drift deposits in the Chicago area consist of either the Carmi Member or Dolton Member of the Equality Formation. The Equality Formation consists of offshore glacial lake deposits of silt and clay, and near shore deposits of sand and gravel. The Carmi Member consists of quiet-water lake sediments dominated by well bedded silt and some clay (Lineback, 1979). In most cases these lake deposits are only a few feet thick, rarely as much as 20 feet thick (Willman, 1971). The Dolton Member consists largely of shallow-water near shore lake sediments in beaches, bars, spits, and deltas. They are dominantly medium grained sands (Lineback, 1979). The Dolton Member is generally less than 10 feet thick, but may be as much as 25 feet thick.

(Willman, 1971). The Equality Formation may be covered by a thin layer of wind blown silt. The Wedron Formation may be present beneath the Equality Formation. The Wedron Formation consists predominantly of glacial till and averages 100 feet thick throughout the Chicago area (Willman, 1971).

### **2.3 Site History**

The Site is a former manufactured gas plant (MGP) that operated as production and storage facility for manufactured gas from approximately 1897 to 1921 (Burns). The Universal Gas Company (Universal) began MGP operations at the Site in 1897(Burns). Peoples Gas leased the facility from Universal in 1907 and then purchased Universal Gas Company in 1914 (Burns). Production operations ceased at the Site in 1921, and the facility was dismantled in 1938 (Burns). At the time the site was dismantled in 1938, on-site structures included: a 3,000,000 cubic foot ( $\text{ft}^3$ ) gas holder; a 350,000  $\text{ft}^3$  relief gas holder; one 514,000 gallon and three 180,000 gallon oil tanks; various sized tar tanks; coal shed; purifying house; scrubber and condenser house; one tar well and tar separator (Burns).

Sanborn maps covering the facility were obtained from Environmental Data Resources, Inc (EDR) by Burns and McDonnell who performed Site Inspection activities at the site in 2002 and 2005. The structures associated with the MGP facility were included in the 1911 and 1912 Sanborn maps but were absent the next year covering the property. The Sanborn map from 1950 (apparently the next revision for the area following the 1912 edition) included railroad tracks on the eastern boundary of the site but no MGP structures. According to Hansen Engineers Inc. who conducted a preliminary site investigation at the facility in 1992, Peoples Gas sold the facility to Paschen Contractors

who occupied the site somewhere between 1952 and 2005 and registered three underground storage tanks (USTs) at the site (Hanson). In 1975, according to the Sanborn map produced that year, a coal yard and a building (referred to as a garage) were present on the site (Burns).

### 2.3.1 Previous Investigations and Actions

Several investigations were conducted at the site by a number of parties from 1990 to 2000 (Burns). Investigations conducted by Carlson, Knight Kudma Inc. centered on a leaking underground storage tank incident (LUST) which resulted in the removal of seven tanks ranging in size from 360 – 1000 gallons. The USTs contained a variety of gasoline, diesel, and lubricating oils (Carlson). Hanson Engineers, Boelter Environmental, Environmental Resources Management, and Levine-Fricke conducted investigations that focused on impacts from the MGP activities within property boundaries (Burns).

Peoples Gas conducted several investigations from approximately 2002 to Fall 2005 (Burns). These investigations revealed the following findings:

- Volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), metals, and cyanide were detected in groundwater samples at the site;
- Visible evidence of coal tar, sheen, and staining was observed at depths below the water level in soil borings and test pits;
- Arsenic, lead, benzene, ethylbenzene, toluene, and polynuclear aromatic hydrocarbons (PAH) were detected at concentrations exceeding Illinois TACO Tier I screening levels in soil samples;
- At various locations throughout the site, coal tar, staining, sheen, and odors were observed. (U.S. EPA, POLREP1)

In 2004, the U.S. Army Corps of Engineers (USACE) conducted sediment sampling and analysis throughout the South Fork of the South Branch of the Chicago River. The investigation was not directed to any one facility along the River; the main goal of the investigation was to determine whether or not the sediments were considered hazardous in accordance with the Resource Conservation and Recovery Act (RCRA). Thirteen sediment samples were collected and shipped off-site for analysis. Analysis performed included: Toxicity Characteristic Leaching Procedure (TCLP) Metals; flash point; reactive cyanide and sulfide; and total metals, volatiles, semi-volatiles, pesticides, and Polychlorinated Biphenyls (PCBs). In consideration of semi-volatile analysis, the greatest concentrations were observed in a sample location identified as B13, collected at the most southern portions of the South Fork, upstream of the Pitney Court site. The greatest concentrations of semi-volatiles in sample B13 included fluoranthene at 110,000 ug/kg, phenanthrene at 100,000 ug/kg, and pyrene at 93,000 ug/kg (CDM). Notable results of other contaminants from the study include Arochlor-1248 at 8000 ug/kg, lead at 2820 mg/kg, and copper at 534 mg/kg (CDM).

Peoples Gas re-purchased the site in 2005. Peoples Gas began remediation activities in September 2005 under the Illinois Environmental Protection Agency (Illinois EPA) Site Remediation Program. Remediation was suspended temporarily in December 2005 and started up again in September 2006. Remediation has consisted of the excavation and disposal of contaminated soils. Excavation depths have ranged from approximately 3 feet to 17 feet below ground surface (bgs). The Potentially Responsible Party (PRP), Peoples Gas Light and Coke has retained the services of Burns & McDonnell Engineering Company (BMcD). Burns & McDonnell Engineering Company has divided

the site into 151 excavation cells (U.S. EPA, POLREP1).

In 2006, BMcD conducted a multi-phased sediment investigation in the South Branch of the South Fork of the Chicago River immediately west of the site on behalf of Peoples Gas. The sediment investigation included sediment borings, boring logs, and laboratory analysis on sediments collected from discrete depths and locations throughout the stretch of the Chicago River immediately adjacent to the site. Sediment from approximately 100 locations was analyzed using a Tar-specific Green Optical Screening Tool (TarGOST) (Burns, Draft).

TarGOST employs fluorescence measurements made directly on the soil or sediment surface. PAHs present in the soil or sediment react differently to the light and either absorb or fluoresce the light which is then measured and compared a known response of coal tar. Based on the response, estimations can be made with regard to concentrations of coal tar in the soil or sediment. (Germain and Peterson)

Sediment samples collected during the 2006 investigation were also sent to an off-site laboratory for more traditional Volatile, Semi-volatile analysis (Burns, Draft). Although BMcD did not produce a final report with explanation of the sediment sampling results, traditional laboratory results were provided to Illinois EPA for the purposes of this report. Sediment sample depth ranged from zero (0) to approximately 10 feet below sediment surface (Burns, Draft). Analysis results were provided on 16 locations with multiple depths analyzed in several locations (Burns, Draft). Benzo(a)pyrene results ranged from 2070 ug/kg to 75,400 ug/kg (Burns, Draft). Two general areas appear to have the highest concentrations in the River immediately west of the site: 1) Directly west of the MWRD Drop Shaft near the west central portion of the site, and 2) Directly west of the northeast corner of the site (Burns, Draft).

In early June, 2007, the U.S. EPA began oversight of the remediation activities being conducted by Peoples Gas (U.S. EPA, POLREP1). The Superfund Technical and Response Team (START) contractor is currently performing oversight during the removal activities at the site which includes the collection of confirmation samples of soil to confirm that the PRP cleanup objectives are being met. Prior to U.S. EPA's involvement, BMcD had excavated approximately 104 out of 151 cells. The site contaminants of concern are:

- BTEX;
- PAHs;
- Synthetic precipitation leaching procedure (SPLP) lead, chromium, and selenium; and
- 2-methynaphthalene and carbazole (SVOCs).

Remediation is expected to be completed in spring of 2008.

## **2.4 Regulatory Status**

Based upon available file information the Pitney Court Station MGP does not appear to be subject to Resource Conservation and Recovery Act (RCRA) corrective action authorities. Information currently available does not indicate that the site is under the authority of the Atomic Energy Act (AEA), Uranium Mine Tailings Action (UMTRCA), or the Federal Insecticide Fungicide or Rodenticide Act (FIFRA).

The site is enrolled in the Illinois EPA's Voluntary Site Remediation Program. However, the site became considered "Inactive" following the filing of the U.S. EPA Administrative Order on Consent and will remain inactive until the requirements of the Consent Order are completed. Following the completion of activities required within the Consent Order,

Peoples Gas may elect to sign an administrative order on consent to conduct a remedial investigation/feasibility study with U.S. EPA.

## 3.0 FIELD INSPECTION ACTIVITIES

### **3.1 Field Inspection**

On Monday July 30, 2007 a field inspection was conducted at the Pitney Court Station site. Illinois EPA personnel met with Chris Szela at the site. Szela is with Integrys Business Support Company, the company overseeing the remediation activities at the site on behalf of Peoples Gas. Szela discussed site history, including past investigations as well as environmental actions conducted at the site. Remediation was occurring at the time of the inspection. Excavation locations that were awaiting confirmation sample results were inspected as were areas still awaiting soil removal. Szela shared the “working copy” of the excavation layout map showing how many cells had been excavated, the depth of the excavation, and whether or not the cell had been backfilled. The most recent excavation layout map is included as Figure 5 of this report. Digital photographs were taken during the inspection and are included as Appendix A to this report.

## 4.0 POTENTIAL SOURCES

This section includes descriptions of the various hazardous waste sources that have been identified at the Pitney Court Station site. The Hazard Ranking System defines a “source” as: “Any area where a hazardous substance has been stored, disposed or placed, plus those soils that have become contaminated from migration of hazardous

substance." This does not include surface water or sediments below surface water that has become contaminated.

The Site Investigation Report produced by BMcD identified the following areas as "source material areas":

- The tar well/separator structures in an area near the center of the site;
- The area around the former north relief gas holder in the northern area of the site;
- The area within the former scrubbers and condenser house along the east boundary area of the site;
- The area within the former scrubbers and former engine house in the north central area of the Site; and
- The area around and within the former 3 million cubic foot gas holder (Burns).

In accordance with discussions held on Monday July 30, 2007 during the field inspection, the removal action based on extent was intended to remove all source areas identified above. Soil was excavated to depths ranging between 4 and 28 feet below ground surface, with average excavation depth throughout the site at approximately 12 feet below ground surface (Figure 3). As of the date of this report, approximately 25 cells had not yet been excavated, and are located primarily along the river (Szela). Peoples Gas Light and Coke estimate that approximately 60,000 – 75,000 tons of contaminated soil remain at the site, but will be excavated prior to the conclusion of the remedial actions at the site.

#### **4.1 Contaminated Soil**

In consideration of the fact that several excavation cells have not yet been excavated, contaminated soil is still present at the site. Based on soil analytical results, 37 out of 56 soil samples collected by BMcD contained either carbazole, polynuclear aromatic hydrocarbons (PAHs), arsenic, or lead above Illinois EPAs residential corrective action objectives as identified in the Tiered Approach to Corrective Action Objectives (TACO) guidance. Benzo(a)pyrene was the compound detected above corrective action objectives (CAOs) the most often, at concentrations up to 80 mg/kg (Burns). Other PAH compounds detected include: benzo(a)anthracene, benzo(k)fluoranthene, and benzo(b)fluoranthene.

#### **4.1 Contaminated Ground Water**

The current remediation activity does not address current ground water contamination. Ground water samples collected by BMcD during their Site Investigation identified volatile, semi-volatile, and inorganic compounds in ground water analytical results for 15 samples. The compounds benzene, ethyl benzene, benzo(a)pyrene, benzo(a)anthracene, benzo(k)fluoranthene, benzo(b)fluoranthene and cyanide were the most prominent contaminants detected in groundwater.

### **5.0 PATHWAY DISCUSSIONS**

The Office of Site Evaluation identifies three migration pathways and one exposure pathway, as identified in CERCLA's Hazard Ranking System, by which hazardous substances may pose a threat to human health and/or the environment. Consequently, sites are evaluated on their known or potential impact to these pathways. The pathways

evaluated are ground water migration, surface water migration, air migration, and soil exposure.

## **5.1 Ground Water**

Groundwater resources in the Chicago region are developed from four aquifer systems: 1) sand and gravel deposits of glacial drift; 2) shallow dolomite formations, mainly of Silurian age; 3) Cambrian – Ordovician Aquifer, of which the Ironton – Galesville and Glenwood – St. Peter Sandstones are the most productive formations; and 4) the Mt. Simon Aquifer, consisting of sandstone of the Mt. Simon and lower Eau Claire Formations of Cambrian age.

Water-yielding localized sand and/or silt lenses, and to a greater extent, sand and gravel deposits occur in the drift, particularly in valleys cut into bedrock. Silurian age dolomite, which is widely used as a source of groundwater, is the upper most bedrock formation in the region and considered as the shallow dolomite aquifer. The glacial drift and the shallow dolomite aquifers are hydrologically connected and are recharged directly by seepage from precipitation. They are separated from the Cambrian – Ordovician Aquifer in most of the region by the relatively impervious Maquoketa Group Shale. The Cambrian - Ordovician Aquifer rises westward and is recharged at the surface or through glacial deposits west of the outcrop area of the Maquoketa Shale along the western edge of the Chicago region (beyond the western boundaries of Lake, Du Page, Cook, and Will Counties) (Willman, 1971). The Cambrian – Ordovician Aquifer is separated from the Mt. Simon Aquifer by the shaly and silty beds of the Eau Claire Formation that prevents flow between the aquifers. The Mt. Simon Aquifer has a higher artesian pressure than the other aquifers, but the water quality in the eastern part of the Chicago region is not acceptable for many uses. This aquifer is recharged largely from the

outcrop region of Cambrian rocks in central southern Wisconsin (Willman, 1971). The Cambrian – Ordovician Aquifer has been the most highly developed bedrock aquifer, however, approximately 60 percent of the total pumpage in the Chicago region is from the glacial drift and shallow dolomite aquifer with no widespread decline in water level.

As indicated above there can be adequate groundwater reserves within the various aquifers in the Chicago region. However, the City of Chicago draws water from Lake Michigan and distributes it throughout the metropolitan and suburban transmission system for drinking water purposes.

The Illinois State Geological Survey (ISGS) and the Illinois State Water Survey (ISWS), do however, indicate that approximately 48 potable water wells existed or still exist within a four mile radius around the Pitney Court Station property. One well exists within 0.25 miles of the site and only 4 out of the 48 wells are located within one mile of the facility. All of the wells are owned by industry and may be used for processes within the facility rather than for use as drinking water. According to the ISWS Private Well Database the wells on record were drilled to depths between 120 and 2188 feet deep, with only six wells less than 1000 feet in total depth. It is not known how many of the recorded wells are currently in use. ISGS and ISWS information does not indicate the static water levels in the wells. Groundwater flow in the shallow bedrock aquifer trends east-southeast following the east-southeast dip of the beds of dolomite of approximately 10 feet per mile (Larson, et. al., 1959). Groundwater flow direction in the deep bedrock aquifer is not presently known.

Based on soil borings conducted on the site, the site soils are generally comprised of 3 to 4 feet of miscellaneous fill over silty clay to depths of approximately 30 – 40 feet bgs,

where hardpan is encountered followed by weathered rock. The fill material should exhibit relatively high vertical and horizontal permeability, whereas the native silty clay should exhibit low vertical and horizontal permeability.

After reviewing the geology, groundwater usage of the area, and the Groundwater Quality Standards (35 IL Adm. Code Part 620), the groundwater beneath this property can be classified as Class II groundwater. The determination was based on the following: no potable water supply wells are within the minimum setback zone, no sandstone greater than 10 feet thick or fractured carbonate greater than 15 feet thick exists, and 99% of all water within the Chicago distribution area is supplied by the City of Chicago with water from Lake Michigan.

Ground water samples collected at the site by BMcD in 2002 identified the presence of volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), metals, and cyanide. In addition, visible evidence of coal tar, sheen, and staining was observed at depths below the water level in soil borings and test pits. Several contaminants were identified at concentrations greater than the Federal Maximum Contaminant Level (MCL) for drinking water, including benzene, ethylbenzene and benzo(a)pyrene at maximum concentrations of 2.7 mg/L, 1.3 mg/L, and 0.02 mg/L, respectively.

According to the United States Geological Survey Source Water Assessment Program there are 26 community water systems and 79 non-community and industrial groundwater wells and/or distribution systems located in Cook County. None of these systems falls within a four mile radius of the Pitney Court Station site. According to ISWS well logs the closest potable water well to the site is approximately 1/4 mile south northwest of the Pitney Court Station site. The well is 1817 feet deep and utilizes the

Cambrian-Ordovician Aquifer. Potential for contamination to this well, as a result of former manufactured gas activity at this facility, is remote due to the site characteristics, geology, and distance from the facility. Also, since the Maquoketa Group is a confining layer beneath the Silurian Dolomite the Ordovician aquifer would not be considered a concern for potential contaminant intrusion.

## **5.2 Surface Water**

The site is generally flat and incidental precipitation infiltrates into the ground or into catch basins (Burns). Surface water run-on and run-off are negligible (Burns) although the potential for surface contamination to flow off the site towards the west into Bubbly Creek cannot be discounted.

A potential migration pathway from the former MGP facility at Pitney Court is to the South Fork of the South Branch of the Chicago River via underground pipes within the boundary of the facility oriented in an east-west direction encountered during the site investigation conducted by BMcD.

Two clay drainage pipes were found running east-west during test pit excavations performed by BMcD and again during soil excavation during the remediation activity (Burns; Szela). "The first was a 6-inch clay drain tile pipe encountered at about 27 feet south of the north Site Boundary, about 3.5 feet bgs."(Burns) A small amount of water drained out of the pipe when it was encountered." (Burns). The second was an 8-inch clay pipe located about 75 feet south of the north Site Boundary, about 5 feet bgs (Burns). This pipe was nearly full of clear water, which drained out from the east and emptied. It is possible that at one time the pipes lead from processes at the facility into Bubbly Creek, but no pipe outlet into Bubbly Creek has been identified during site

activities. Due to the pipes' location (depth below surface and close proximity to storage process vessels), it is the possibility for a preferential pathway to develop around the outside of the pipe even if the pipe simply passed through the site from another location. This possibility is real as material directly around the pipes appeared to be impacted (Szela). For the purpose of this report, the probable point of entry (PPE) will be considered the intersection of the 8-inch clay pipe point and the South Fork of the South Branch of the Chicago River.

Illinois EPA conducted a cursory review of the semi-volatile analytical data (concentrations for benzo(a)pyrene, benzo(k)fluoranthene, anthracene, and fluorene) from sediment samples collected by the USACE concentrations as well as BMcD from 2006. In consideration of the combined 2004 and 2006 data, sediment samples immediately west and down gradient of the site contained the greatest concentrations of benzo(a)pyrene of 75,000 ug/kg. Concentrations of benzo(a)pyrene, benzo(k)fluoranthene, anthracene, and fluorene meet the criteria for an observed release (three times greater than background concentrations) in sample PCS-RSB-037B-001 as compared to samples collected from the same depth upstream. A portion of the data and a sediment sample location maps from the USACE and BMcD sediment investigations are included in Appendices B and C, respectively of this report.

The Target Distance Limit (TDL) extends 15 miles from the PPE in the direction of flow or to the most distant sample point establishing an observed release, whichever is greater. The 15 Mile TDL Map is depicted in Figure 4. The 15 mile TDL begins adjacent to the site in the South Fork (Bubbly Creek) approximately 75 feet south of the north site boundary. The South Fork flows north approximately 0.47 miles into the South Branch of the Chicago River North Branch of the Chicago River where it becomes the Chicago

Ship and Sanitary Canal. The in-water segment flows into the Chicago Ship and Sanitary Canal and continues for 14.5 miles. The 15 mile TDL terminates near Willow Springs, Illinois.

The Chicago Ship and Sanitary Canal is classified as a fishery and supports mainly carp and other less desirable species (Illinois Department of Natural Resources). Neither fishery supports state or federally listed threatened or endangered species.

<http://dnr.state.il.us/fish/digest/digest.pdf>

According to the Federal Emergency Management Agency (FEMA), the site is not within the limits of the 100 year floodplain for the South Branch of the Chicago River and the Chicago Ship and Sanitary Canal. According to the Illinois Department of

Conservation's Natural Heritage Database there are no federal or state threatened or state endangered species or pristine natural areas occurring in the vicinity of the site.

According to the National Wetland Inventory maps developed by the U.S. Fish and Wildlife Service there is a wetland with 628 meters of frontage located approximately 10.5 miles downstream of the Pitney Court Station site. There are no surface water intakes along the North Branch of the Chicago River nor the Chicago Sanitary and Ship Canal.

### **5.3 Soil Exposure**

The contaminated soil source, identified inside of the facility boundaries, has associated contamination within two feet of the ground surface. There are no residents living within the facility boundaries, but there are on-site workers. There is a fence around the site that restricts access of trespassers to the facility. Based on proximity, surficial

contamination at the facility is assumed to be either placed or accidentally spilled primarily within the boundaries where the sources currently exist.

According to investigations conducted by Peoples Gas, test pits revealed staining and odors, and black asphalt tar at 2 feet below ground surface (bgs). Benzene, toluene, ethylbenzene, and xylene (BTEX); polynuclear aromatic hydrocarbons (PAH); metals, and cyanide were detected in several surface and subsurface soil samples.

Nearby population was calculated based on data generated by the United States Census Bureau from the 2000 Census. The table below identifies approximate population within ¼, ½, 1, 2, 3, and 4 miles of contaminated soil at the site.

Distance from Facility	Population
¼ Mile	3,405
½ Mile	8,085
1 Mile	24,579
2 Mile	132,141
3 Mile	225,814
4 Mile	218,436

Source: U.S. Census Bureau

#### **5.4 Air Route**

During the investigations conducted by Peoples Gas there was no formal air samples collected. Although currently during the time critical removal, perimeter air sampling and air monitoring is being collected on a continuous basis due to the disruption of the soil on site. BMcD has been using odor and dust suppressing foam on the soil excavation and stockpile to minimize dust and odor emissions. In addition, BMcD has been using a water truck to suppress dust on the site throughout general operations areas.

An estimated 612,460 people reside within a four-mile radius of the site. Air emissions from plant processing during the years of operation may have resulted in air deposition of contamination in the nearby residential and commercial properties surrounding the site.

## 6.0 Summary

The Illinois EPA Office of Site Evaluation has conducted an Abbreviated Preliminary Assessment at the former location of the Pitney Court Station coal gasification site at 3052 Pitney Court, Chicago Illinois. The Abbreviated Preliminary Assessment was completed using readily available, previously documented information to distinguish between sites that pose little or no threat to human health or the environment, and those that may require further investigation. U.S. EPA requested that an APA be conducted by Illinois EPA due to the historical operations of the facility, as well as its proximity to the river and residential areas.

The Surface Water Pathway is the primary pathway of concern at this site. The facility is located adjacent to the South Fork of the South Branch of the Chicago River. Due to the facility's location, wastes from the site could enter the adjacent waterway via overland flow, through preferential pathways (underground piping), or groundwater to surface water interaction. Analytical results from sediment samples collected by USACE in 2005 and BMcD in 2006 indicate that the facility has had measurable impacts (meeting observed release criteria) of semi-volatile compound concentrations in sediment in the South Fork.

Contaminant concentrations identified in ground water beneath the site meet the criteria for an observed release for several semi-volatile compounds and are greater than MCLs. However, ground water use in the Chicago area for drinking water purposes is minimal due to a clean consistent source from Lake Michigan. Approximately 48 water wells owned by various local industries exist within four miles of the site.

Contaminated Soil and the Air Pathway are also minor pathways of concern. The lack of any laboratory analysis for air samples and the current remediation of surface soils minimize any concern for air releases and environmental impacts. Similarly, the threat based on the Soil Contamination Pathway is significantly reduced because of removal activities and institutional controls including a cyclone fence surrounding the site.

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LAURA  
RIPLEY/R5/USEPA/US  
12/03/2007 04:45 PM

To "Tom Crause" <Tom.Crause@illinois.gov>  
cc "Bruce Everett" <Bruce.Everett@illinois.gov>, Erica  
Isla/R5/USEPA/US@EPA, "Jerry Willman"  
<Jerry.Willman@illinois.gov>  
bcc LAURA RIPLEY/R5/USEPA/US

Subject Peoples Gas Pitney Court - confidential predecisional

Tom:

Here are our comments on Peoples Gas Pitney Court Abbreviated PA. Our comments are minor in nature. Please send the revised report/information to Erica.

Page 1, 1.0 Introduction, General Comment: The National Oil and Hazardous Substances Pollution Contingency Plan requires that a **Preliminary Assessment** be performed on all sites... Not an abbreviated PA. The Abbreviated PA is considered to be a PA equivalent report. Please make this clarification throughout the introduction.

Page 2, 2.1 Site Description: Is the address 3050 Pitney Court or 3052 Pitney Court? The first address, 3050, is what CERCLIS has. Please let me know which address is correct. ~~→ stayed 3052, should we correct?~~

Page 5, 2.2 Site History, 4th line: Please add a space between 1907 and the word "and".

Page 6, 2.2.1 Previous Investigations and Actions, 2nd paragraph, list: Please add semicolons at the end of the bullets and a period at the end of the last bullet.

Page 9: Is the remediation still on target to be completed by the end of 2007?

Page 9, 2.4 Regulatory Status: Upon completion of activities required within the consent order, Peoples Gas may elect to sign an administrative order on consent to conduct a remedial investigation/feasibility study with U.S. EPA.

Page 12, 5.0 Pathway Discussions, line 3: Please add the word "a" between the words pose and threat.

Page 18: How much wetland frontage does the wetland encompass 10.5 miles downstream of Pitney Court?

Page 18, 5.3 Soil Exposure: Are there any residences, schools or day care centers within 200 feet of the property?

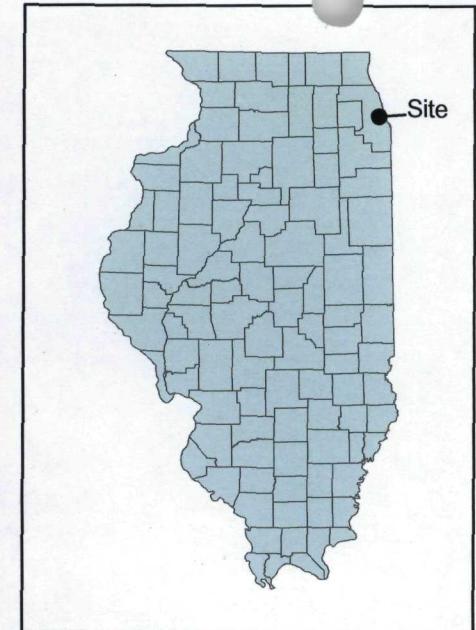
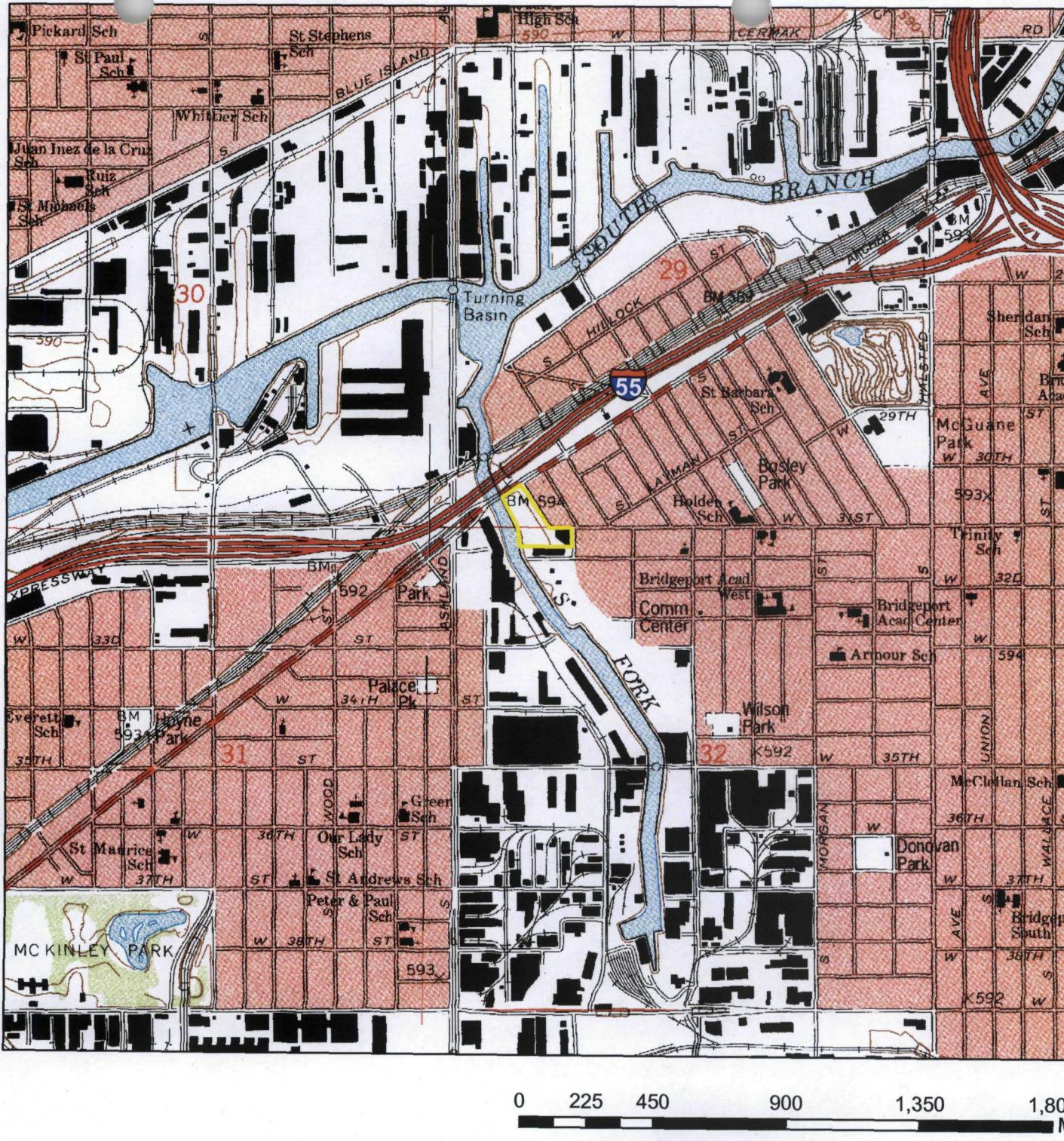
Please let Erica know if you have any questions with these comments.

Thank you.

Laura J. Ripley  
Environmental Scientist  
US EPA - Region 5  
Mail Code: SR-6J  
77 W Jackson Blvd  
Chicago, IL 60604

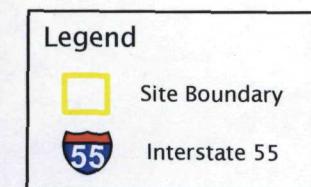
PH: 312-886-6040  
FAX: 312-353-8426

# Figures



# **Figure 1**

## Pitney Court Station Site Location Map

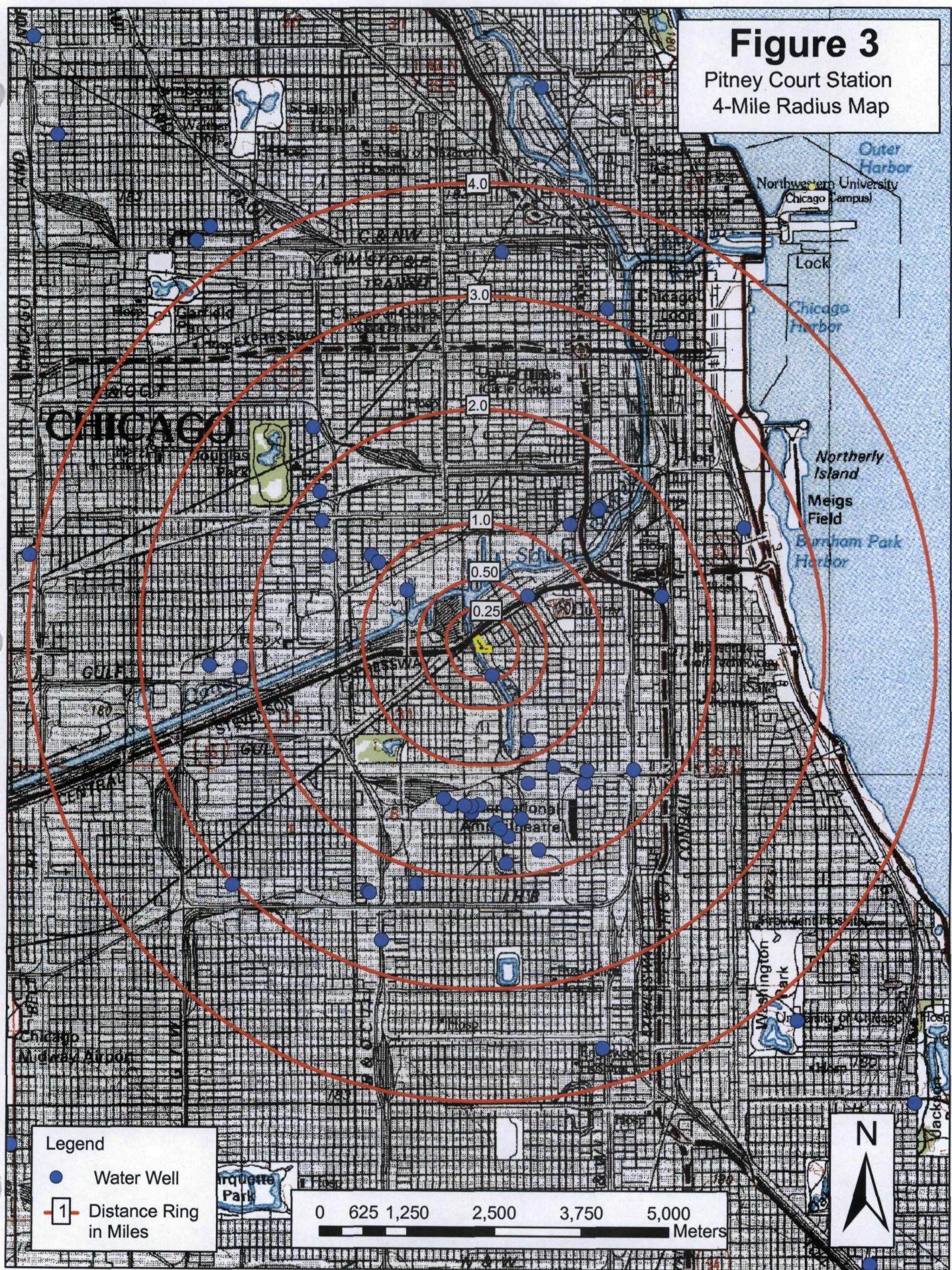


**Figure 2**  
Pitney Court Station  
Site Map



**Figure 3**

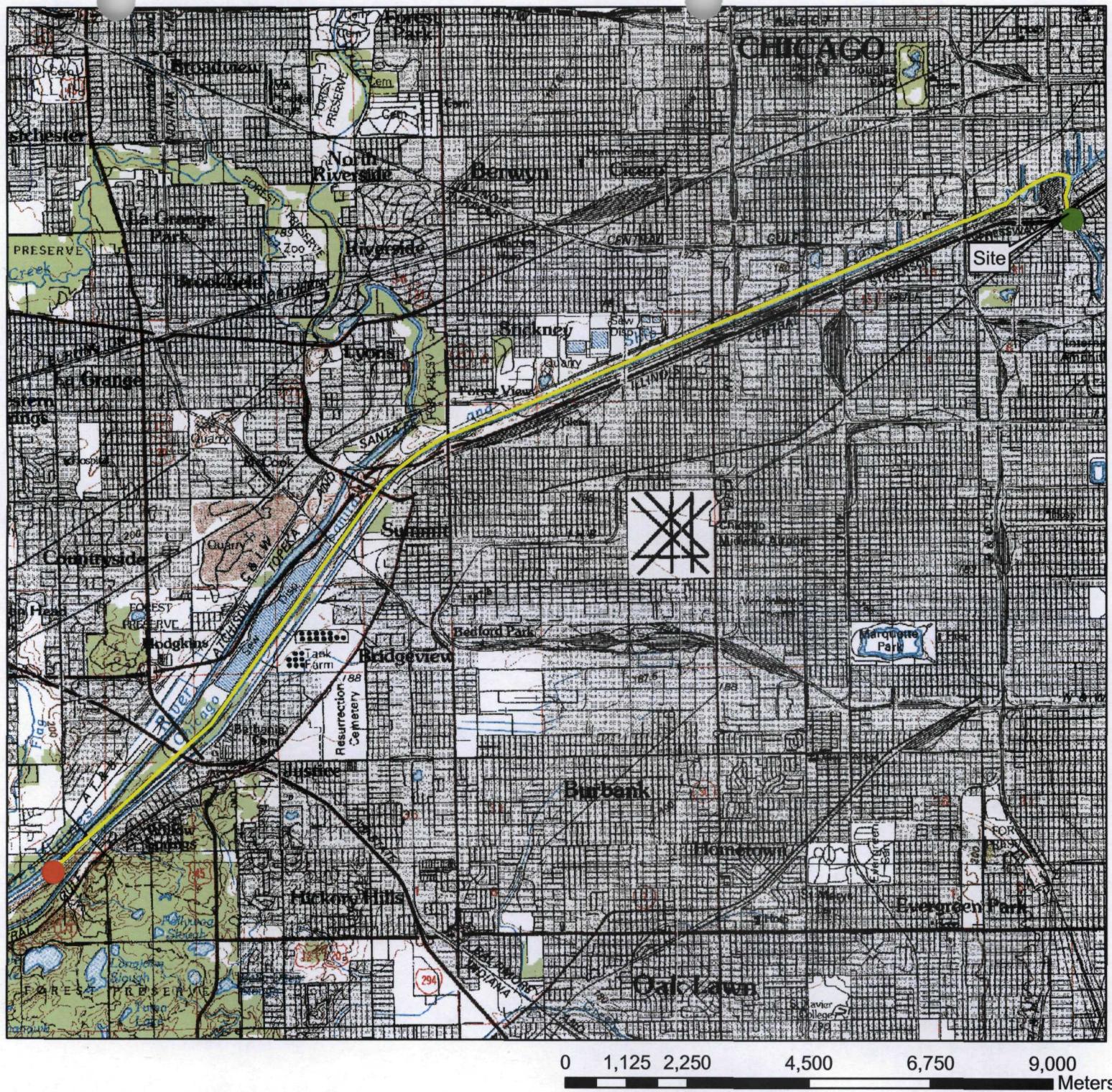
Pitney Court Station  
4-Mile Radius Map



**FIGURE 4**

15-Mile In-Water Segment  
of Surface Water Pathway

Pitney Court Station  
MGP Site



Legend

- Probable Point of Entry
- In-Water Segment
- 15-Mile Target Distance Limit





# Appendix A

## Illinois EPA Sample Photographs

**SITE NAME:** Pitney Court Station MGP

**CERCLIS ID:** ILN000510196

**COUNTY:** Cook

<b>DATE:</b>	7/30/2007
<b>TIME:</b>	1500
<b>PHOTO BY:</b>	J. Willman
<b>DIRECTION:</b>	south-southeast

**COMMENTS:**

Photo of excavation beneath western portion of former gas holder



<b>DATE:</b>	7/30/2007
<b>TIME:</b>	1505
<b>PHOTO BY:</b>	J. Willman
<b>DIRECTION:</b>	east-northeast

**COMMENTS:**

Photo of site entrance toward intersection of 31st Street and Pitney Court



**SITE NAME:** Pitney Court Station MGP

**CERCLIS ID:** ILN000510196

**COUNTY:** Cook

<b>DATE:</b>	7/30/2007
<b>TIME:</b>	1510
<b>PHOTO BY:</b>	J. Willman
<b>DIRECTION:</b>	west-southwest

**COMMENTS:**

Photo of contaminated soil and foam suppressant from excavation beneath western portion of former gas holder



<b>DATE:</b>	7/30/2007
<b>TIME:</b>	1520
<b>PHOTO BY:</b>	J. Willman
<b>DIRECTION:</b>	northwest

**COMMENTS:**

Contaminated water and soil in former boil house area covered by steel tie back beams for sheet tile along "Bubbly Creek"



**SITE NAME:** Pitney Court Station MGP

**CERCLIS ID:** ILN000510196

**COUNTY:** Cook

<b>DATE:</b>	7/30/2007
<b>TIME:</b>	1525
<b>PHOTO BY:</b>	J. Willman
<b>DIRECTION:</b>	east

**COMMENTS:**

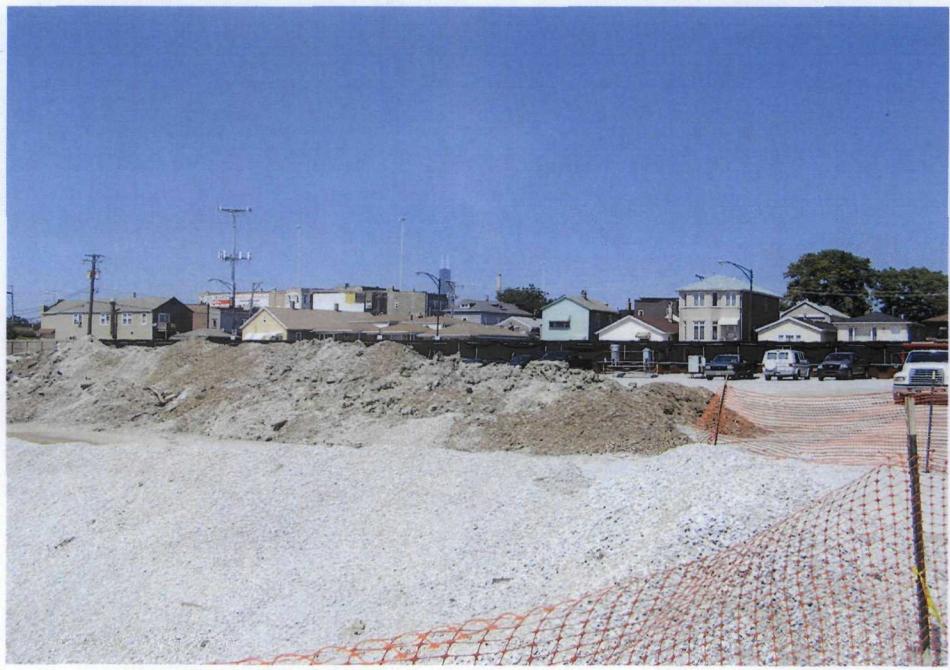
Photo along path of underground brick and mortar pipe passing through site. Contractor noted that pipe walls were contaminated with black tarry material and removed upon discovery.



<b>DATE:</b>	7/30/2007
<b>TIME:</b>	1530
<b>PHOTO BY:</b>	J. Willman
<b>DIRECTION:</b>	northeast

**COMMENTS:**

Photo across completed remediation areas including former engine house and condensor/scrubber house. Area bounded by Pitney Court and single family homes



**SITE NAME:** Pitney Court Station MGP

**CERCLIS ID:** ILN000510196

**COUNTY:** Cook

**DATE:** 7/30/2007

**TIME:** 1530

**PHOTO BY:** J. Willman

**DIRECTION:** west

**COMMENTS:**

Photo showing area above where tar-stained brick and mortar pipe flowed into "Bubbly Creek"



**DATE:** 7/30/2007

**TIME:** 1535

**PHOTO BY:** J. Willman

**DIRECTION:** south-southwestt

**COMMENTS:**

Photo showing southwestern corner of facility and south fork of south branch of Chicago River ("Bubbly Creek")



**SITE NAME:** Pitney Court Station MGP

**CERCLIS ID:** ILN000510196

**COUNTY:** Cook

<b>DATE:</b>	7/30/2007
<b>TIME:</b>	1535
<b>PHOTO BY:</b>	J. Willman
<b>DIRECTION:</b>	northwest

**COMMENTS:**

Former boil house area with "Bubbly Creek" and Archer Avenue and Interstate 55 in background



<b>DATE:</b>	7/30/2007
<b>TIME:</b>	1540
<b>PHOTO BY:</b>	J. Willman
<b>DIRECTION:</b>	east

**COMMENTS:**

Photo of area along northern boundary of southeast portion of the site. Benson Street and bordering residential area is in picture background while 31st Street frames the left-hand side of the picture.



**SITE NAME:** Pitney Court Station MGP

**CERCLIS ID:** ILN000510196

**COUNTY:** Cook

**DATE:** 7/30/2007

**TIME:** 1542

**PHOTO BY:** J. Willman

**DIRECTION:** southeast

**COMMENTS:**

Photo across remediated area of former oil tank and one-story garage/office. Benson Street and bordering residential area is in picture background



**DATE:** 7/30/2007

**TIME:** 1545

**PHOTO BY:** J. Willman

**DIRECTION:** west

**COMMENTS:**

Photo of contaminated soil and foam suppressant from excavation beneath western portion of former gas holder. "Bubbly Creek" (unseen) is approximately 100 feet beyond track-hoe.



**SITE NAME:** Pitney Court Station MGP

**CERCLIS ID:** ILN000510196

**COUNTY:** Cook

**DATE:** 7/30/2007  
**TIME:** 1550  
**PHOTO BY:** J. Willman  
**DIRECTION:** north-northwest

**COMMENTS:**

Photo of site boundary along Pitney Court with single family residences across the street



**DATE:** 7/30/2007  
**TIME:** 1550  
**PHOTO BY:** J. Willman  
**DIRECTION:** northeast

**COMMENTS:**

Photo of vacant commercial building across the street from the facility where Pitney Court and 31st Street meet



# **Appendix B**

## **USACE 2005 Sediment Data & Figure**

**CDM**

United States Army Corps of Engineers  
Chicago District

**Collection and Analysis of Sediment Samples  
From the South Fork South Branch, Chicago River**

March, 2005

*Final Report*

# Executive Summary

CDM Federal Programs Corporation (CDM) was contracted on December 19, 2003 by the United States Army Corps of Engineers (USACE), Chicago District, to conduct sediment sampling and analysis at South Fork South Branch (SFSB), Chicago River.

The major objective of this sample collection and analysis effort was to assess whether the sediment in Chicago River (SFSB) is deemed to be hazardous per exceedance of toxicity characteristic leaching procedure (TCLP) and other hazardous waste criteria.

Thirteen sediment cores were advanced along the length of the project site and five grab samples were collected from April 20 through 22, 2004. Sediment cores were collected using a Rossfelder P-3 vibracore unit and grab samples were collected using a standard ponar dredge. Continuous core samples were collected from the top of the sediment to a depth equal to the thickness of the sediment layer in each sample location. Sediment depths ranged between 5.5 and 16.8 feet. Sediment was field screened using a photo-ionization detector (PID) and classified using the Unified Soil Classification System (USCS). Sediments encountered at the site consisted primarily of sand and clay.

Thirteen core sediment samples and one field quality control duplicate sample were submitted for laboratory analysis for bulk chemistry parameters and TCLP and hazardous waste parameters. Five sediment grab samples were submitted for laboratory analysis for bulk chemistry parameters.

Sample results for polynuclear aromatic hydrocarbons were typically in the parts per million (ppm) range in most samples. Other semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), oil and grease, and metals were detected in the samples.

Analytical results were compared to Environmental Protection Agency (EPA) TCLP regulatory levels, but none of the compounds detected exceeded the criteria. Ignitability (flash point) was identified in one sample: SF-2004-B02 at 124 degrees Fahrenheit. According to 40 CFR (Code of Federal Regulations) 261.21, a liquid that has a flashpoint less than 140 degrees Fahrenheit when determined by a Pensky-Martens Closed Cup Tester is characteristically hazardous for "ignitability". One (1) SFSB sample out of thirteen (13), tested using the Pensky-Martens Closed Cup Tester method, has exhibited a flash point below this guidance level of 140 degrees Fahrenheit. This is an isolated case and appears to be an anomaly. Further investigation is recommended before drawing conclusions on whether this material shall be considered hazardous based on ignitability.

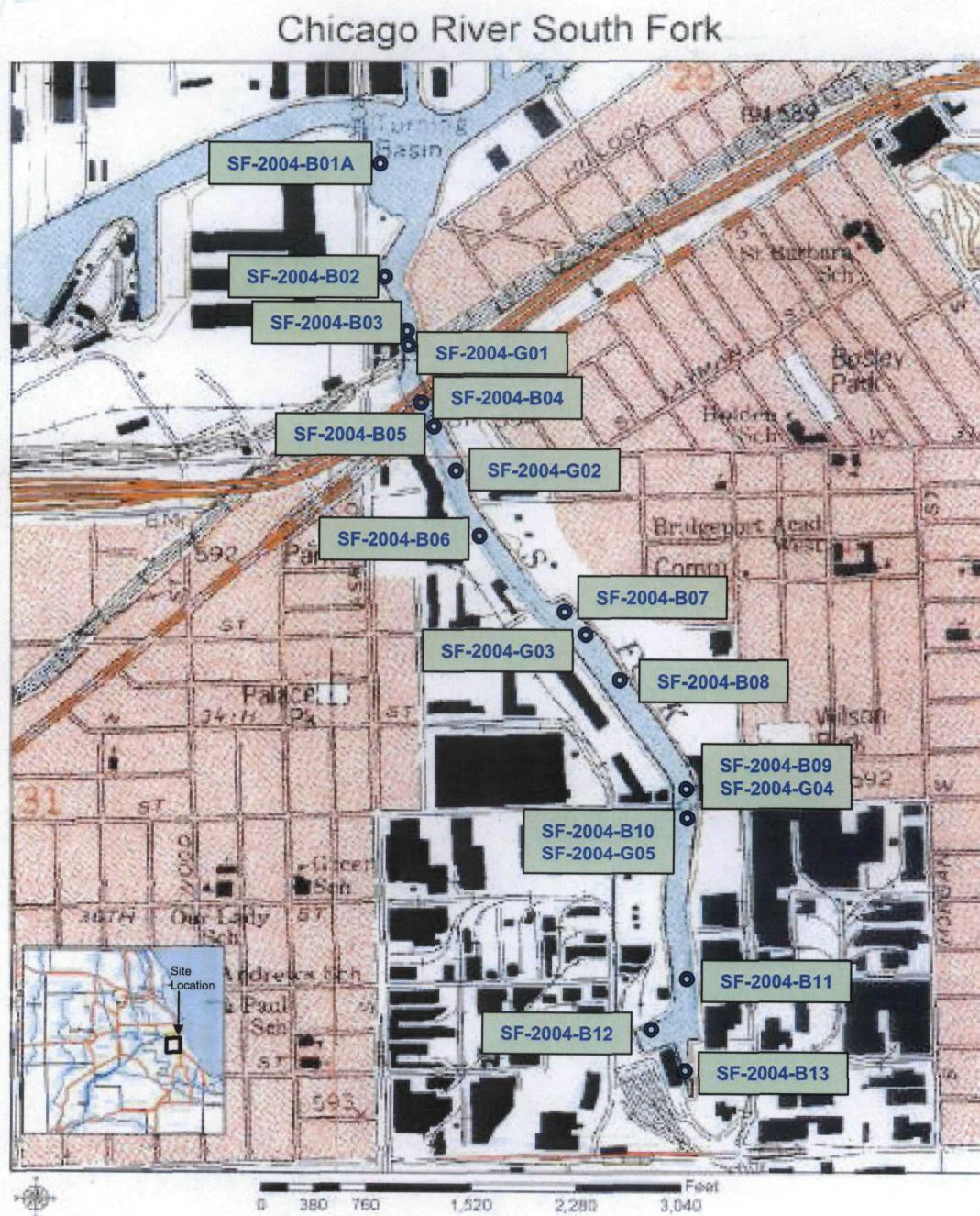
Reactive cyanide and sulfide were compared to EPA SW-846 levels and there were no detections of reactive cyanide, while eleven samples had reactive sulfide results above 500 milligrams per kilogram (mg/kg). The regulation 40 CFR 261.20-24 (subpart C - characteristics of hazardous waste) indicates that a solid waste which is not excluded from regulation as a hazardous waste under 261.4(b), is a hazardous waste if it

exhibits any of the characteristics identified in this subpart C. According to 40 CFR 261.23, a material is characteristically hazardous for "reactivity" if it is a cyanide or sulfide bearing waste which, when exposed to pH conditions between 2 and 12.5, can generate toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment. SW-846 method 7.3.4 "Guidance for Reactive Sulfide" gives a laboratory method for measuring releasable sulfide in solids, and an EPA guidance level of 500 mg/kg, above which the material is considered characteristically hazardous for reactivity. SFSB samples were analyzed for reactive sulfide using SW-846 method 7.3.4, and levels of sulfide were found to exceed the established EPA guidance level of 500 mg/kg in eleven (11) out of thirteen (13) samples. However, USEPA has found significant problems with 7.3.4 method and guidance, and has since withdrawn it from use. No alternative guidance has been given so these results for reactive sulfide have been deemed inconclusive. Appropriate determinations about whether this material shall be classified as hazardous based on reactivity can only be made after further EPA guidance is promulgated.

Total PCB levels were compared to the Toxic Substances Control Act (TSCA) regulatory level and there were no exceedances.

Figure 2-1

Sediment Sampling Locations, April 2004



Map Source: Topo Zone 2003

**Table 3-1 (Continued)**  
**Summary of Bulk Chemistry Results**

	Analyte	Number of Detections	Number of Samples Analyzed <sup>(a)</sup>	Minimum Concentration Detected	Maximum Concentration Detected	Location of Highest Detection <sup>(b)</sup>	Average Concentration or Result
PNAs by 8270 SIM	Naphthalene	19	19	120	8600 D	B13DL	2157
	2-Methylnaphthalene	19	19	170	18,000	D05	6024 <sup>(d)</sup>
	Acenaphthylenne	19	19	47	2600	B01A	609
	Acenaphthene	19	19	180	8,900	B11	2682 <sup>(d)</sup>
	Fluorene	19	19	220	9100 D	B13	3448 <sup>(d)</sup>
	Phenanthrene	19	19	2000	100,000 D	G01DL	25658 <sup>(d)</sup>
	Anthracene	19	19	370	12,000 D	B13DL	4201 <sup>(d)</sup>
	Fluoranthene	19	19	3,800	110,000 D	B13DL	30316 <sup>(d)</sup>
	Pyrene	19	19	3,100	93,000 D	B13DL	23374 <sup>(d)</sup>
	Benzo(a)anthracene	19	19	1100	34,000 D	B13DL	10168 <sup>(d)</sup>
	Chrysene	19	19	1100	60,000 D	B13DL	15379 <sup>(d)</sup>
	Benzo(b)fluoranthene	19	19	1400	40,000 D	B13DL	12647 <sup>(d)</sup>
	Benzo(k)fluoranthene	19	19	470	15,000 D	B13DL	4319 <sup>(d)</sup>
	Benzo(a)pyrene	19	19	1000	28,000 D	B13DL	8442 <sup>(d)</sup>
	Indeno(1,2,3-cd)pyrene	19	19	450	16,000 D	B13DL	3490 <sup>(d)</sup>
PCBs (µg/kg)	Aroclor-1248	17	19	100 P	8000	B10	3233 <sup>(e)</sup>
	Aroclor-1260	18	19	360	3300 P	B03	160 <sup>(e)</sup>
Other Inorganics (mg/kg unless noted)	Total volatile solids (w/ %)	19	19	1.8 B	46 B	B09	16.3
	Total Solids (%)	19	19	36	79	B13	52.8
	Phosphorus, Total (as P)	17	19	540	17,000	D05	5787 <sup>(e)</sup>
	Total organic carbon	19	19	5900	>12,000	(e)	97205
	Nitrogen, ammonia	19	19	62	13,000	B02	2891
	Chemical oxygen demand	16	19	430	6,600	D05	2221
	Chromium, hexavalent	0	19	ND	ND	ND	N/A
	Oil & Grease, total	19	19	1300	20,000	B02	7984
Particle Size (%)	Cyanide	17	19	0.49 BN	9.3 N	B02; B09	3.26 <sup>(e)</sup>
	Gravel	19	19	0	41.2	B06	5.5
	Coarse Sand	19	19	0	19.5	B13	2.9
	Medium Sand	19	19	1.6	47.1	B13	8.8
	Fine Sand	19	19	6.7	86.7	G05	38.6
	Silt	19	19	0.1	53.1	B04	25.9
Specific Gravity	Clay	19	19	2.9	37	B04	18.1
	Specific Gravity	14	14	1.44	2.57	G05	2.09

Data have not been validated, but a quality assessment has been performed by USACE (See Appendix E)

Target analytes not listed were not detected in any samples. Full data tables are in Appendix D.

(a) Including one field quality control duplicate sample

(b) Sample identification name has SF-2004- preceding the location B = (boring) core sample

(c) Several samples with TOC results > 12,000

(d) PNA results by method 8270C were used when method 8270C SIM results exceeded calibration range

(e) Average concentration incorporates reporting limit value for non-detected analytes

B = detected in the blank sample (except for metals/inorganics, where B = concentration below reporting limit)

D = diluted

DL = sample analyzed after dilution

E = exceeds calibration range (for metals E = estimated concentration due to interference)

J = estimated concentration

N = sample recovery outside of control limits

N/A = Not Applicable

ND = No Detections

P = the difference for detected concentration of an Aroclor target analyte is greater than 25% between the two GC columns

**Table 3-1**  
**Summary of Bulk Chemistry Results**

	Analyte	Number of Detections	Number of Samples Analyzed <sup>(a)</sup>	Minimum Concentration Detected	Maximum Concentration Detected	Location of Highest Detection <sup>(b)</sup>	Average Concentration or Result
VOCs (µg/kg) by EPA 8260B	Vinyl Chloride	1	19	19	19	B03	11 <sup>(e)</sup>
	Acetone	19	19	8 J	2700	B09	543
	Carbon disulfide	11	19	6	37 J	B05	13 <sup>(e)</sup>
	Methylene chloride	15	19	2 JB	63 DJB	B12DL	9 <sup>(e)</sup>
	2-Butanone (MEK)	15	19	15	1500 E	D05	259 <sup>(e)</sup>
	cis-1,2-Dichloroethene	1	19	6 J	6 J	B03	10 <sup>(e)</sup>
	Chloroform	12	19	1 J	26 DJ	B12DL	9 <sup>(e)</sup>
	Benzene	11	19	4 J	31	B02	11 <sup>(e)</sup>
	Toluene	16	19	2 J	8000 D	G02DL	471 <sup>(e)</sup>
	Chlorobenzene	7	19	2 J	16	B13	9 <sup>(e)</sup>
	Ethylbenzene	10	19	6 J	87	B12	25 <sup>(e)</sup>
	o-xylene	13	19	3 J	630 E	B02	107 <sup>(e)</sup>
	p-xylene	13	19	1 J	620	B02	154 <sup>(e)</sup>
	Nylenes (total)	13	19	4 J	1200	B02	275 <sup>(e)</sup>
	Isopropylbenzene	12	19	2 J	64	B12	25 <sup>(e)</sup>
	n-Propylbenzene	11	19	3 J	190	B12	52 <sup>(e)</sup>
	1,3,5-Trimethylbenzene	16	19	2 J	770	B12	192 <sup>(e)</sup>
	1,2,4-Trimethylbenzene	17	19	1 J	2000 E	B12	222 <sup>(e)</sup>
	sec-butylbenzene	11	19	4 J	240	B12	77 <sup>(e)</sup>
	Cymene	16	19	2 J	820 E	B12	154 <sup>(e)</sup>
SVOCs (µg/kg) by EPA 8270C (except PNA's)	1,4-Dichlorobenzene	9	19	4 J	200	B10	37 <sup>(e)</sup>
	n-Butylbenzene	14	19	3 J	620	B12	178 <sup>(e)</sup>
	1,2-Dichlorobenzene	2	19	3 J	11	B05	10 <sup>(e)</sup>
	Naphthalene	18	19	3 J	670	B10	143 <sup>(e)</sup>
	Phenol	1	19	110 J	110 J	B02	2630 <sup>(e)</sup>
	1,4-Dichlorobenzene	14	19	110 J	2800	B11	1876 <sup>(e)</sup>
	1,2-Dichlorobenzene	4	19	130 J	550 J	B06	2405 <sup>(e)</sup>
	4-Methylphenol	9	19	250 J	5200	G02	2132 <sup>(e)</sup>
	4-Chloroaniline	1	19	1900	1900	B02	2724 <sup>(e)</sup>
	Diphenoturan	16	19	83 J	6400	B13	2408
Metals (mg/kg)	Carbazole	11	19	500	9900 D	B13DL	3363 <sup>(e)</sup>
	Di-n-butylphthalate	2	19	83 J	560 J	B02	2635 <sup>(e)</sup>
	Butylbenzylphthalate	3	19	340 J	880 DJ	G02DL	2646 <sup>(e)</sup>
	bis(2-Ethylhexyl)phthalate	18	19	2500	41,000	B06	17489 <sup>(e)</sup>
	Di-n-octylphthalate	5	19	370 J	1300 DJ	B02DL	2324 <sup>(e)</sup>
	Arsenic	19	19	2.6	35.2	B09	17.3
	Barium	19	19	43	659	B12	349
	Cadmium	19	19	0.89	28.5	B01a	11.6
	Chromium	19	19	30.8 N	4440 N	B02	688
	Copper	19	19	79.8	534	D05	303
	Lead	19	19	136	2820	B09	1233
	Nickel	19	19	11.4	247	D05	92.9
	Selenium	19	19	0.63 B	6.8	D05	3.59
	Silver	18	19	2.3	70.4	B07	22.2 <sup>(e)</sup>
	Zinc	19	19	207	6600	B09	2690
	Mercury	19	19	0.72	15.9	B10	6.34

**Summary Table of Analytical Data  
Semi-Volatile Organic Compounds**  
South Fork/South Branch Chicago River, April 20-22, 2004

printed 7/14/2004  
Page 4 of 12

CAS Rn	Chemical Name	Analytic Method	Sample Code	SF-2004-B05	SF-2004-D05	SF-2004-B06	SF-2004-E07
			Location	SF-2004-B05	SF-2004-D05	SF-2004-B06	SF-2004-E07
		Sample Matrix	Sediment	Sed. (Duplicate)	Sediment	Sediment	Sediment
				4/21/2004	4/21/2004	4/21/2004	4/21/2004
84-66-2	Diethylphthalate	SW8270C-S	UG/KG	3300 U	5000 U	4200 U	5500 U
7005-72-3	4-Chlorophenyl-phenylether	SW8270C-S	UG/KG	3300 U	5000 U	4200 U	5500 U
86-73-7	Fluorene	SW8270C-S	UG/KG	2700 J	4300 J	1600 J	1500 J
100-01-6	4-Nitroaniline	SW8270C-S	UG/KG	6800 U	10000 U	8600 U	11000 U
534-52-1	4,6-Dinitro-2-methylphenol	SW8270C-S	UG/KG	6800 U	10000 U	8600 U	11000 U
86-30-6	n-Nitrosodiphenylamine	SW8270C-S	UG/KG	3300 U	5000 U	4200 U	5500 U
101-55-3	4-Eromo-phenyl-phenylether	SW8270C-S	UG/KG	3300 U	5000 U	4200 U	5500 U
118-74-1	Hexachlorobenzene	SW8270C-S	UG/KG	3300 U	5000 U	4200 U	5500 U
87-86-5	Pentachlorophenol	SW8270C-S	UG/KG	6800 U	10000 U	8600 U	11000 U
85-01-8	Phenanthrene	SW8270C-S	UG/KG	17000	27000	10000	20000
120-12-7	Anthracene	SW8270C-S	UG/KG	2500 J	4200 J	1700 J	9400 J
86-74-8	Carbazole	SW8270C-S	UG/KG	3300 U	5000 U	780 J	5500 U
84-74-2	Di-n-butylphthalate	SW8270C-S	UG/KG	3300 U	5000 U	4200 U	5500 U
206-44-0	Fluoranthene	SW8270C-S	UG/KG	14000	23000	13000	46000
129-00-0	Pyrene	SW8270C-S	UG/KG	12000	16000	7500	41000
85-68-7	Bulylbenzylphthalate	SW8270C-S	UG/KG	3300 U	5000 U	4200 U	5500 U
91-94-1	3,3'-Dichlorobenzidine	SW8270C-S	UG/KG	3300 U	5000 U	4200 U	5500 U
56-55-3	Benzo(a)anthracene	SW8270C-S	UG/KG	5200	8100	4100 J	16000
218-01-9	Chrysene	SW8270C-S	UG/KG	10000	17000	7900	22000
117-81-7	bis(2-Ethylhexyl) phthalate	SW8270C-S	UG/KG	12000	18000	41000	5500 U
117-84-0	Di-n-octylphthalate	SW8270C-S	UG/KG	3300 U	5000 U	510 J	5500 U
205-39-2	Benzo(b)fluoranthene	SW8270C-S	UG/KG	6900	11000	5800	9300
207-08-9	Benzo(k)fluoranthene	SW8270C-S	UG/KG	2600 J	4000 J	2400 J	3900 J
50-32-8	Benzo(a)pyrene	SW8270C-S	UG/KG	4400	7300	3900 J	6900
193-39-5	Indeno(1,2,3-cd)pyrene	SW8270C-S	UG/KG	2200 J	3900 J	2200 J	3000 J
53-70-3	Dibenz(a,h)anthracene	SW8270C-S	UG/KG	740 J	1200 J	4200 U	5500 U
191-24-2	Benzo(g,h,i)perylene	SW8270C-S	UG/KG	2600 J	4400 J	2600 J	3200 J

Notes:

B = Boring/Core sample

DL = Dilution

G = Grab sample

SF = South Fork/South Branch Chicago River

UG/KG = micrograms per kilogram

Data Qualifiers:

U - Compound was analyzed for but not detected (Undetected)

J - Estimated concentration

D - Compound is identified at a secondary dilution factor

E = Above calibration range

**Summary Table of Analytical Data**  
**Semi-Volatile Organic Compounds**  
 South Fork/South Branch Chicago River, April 20-22, 2004

printed 7/14/2004  
 Page 5 of 12

CAS Rn	Chemical Name	Analytic Method	Unit	Sample Code	SF-2004-B08	SF-2004-B09	SF-2004-B10	SF-2004-B11
					Location	Sample Matrix	Sediment	Sediment
(Group Code)	(Group Description)			Date:	4/21/2004	4/21/2004	4/22/2004	4/22/2004
<b>SVOCs/BNAs</b>								
108-95-2	Phenol	SW8270C-S	UG/KG	3400	U	4000	U	5600
111-44-4	bis(2-Chloroethyl) ether	SW8270C-S	UG/KG	3400	U	4000	U	5600
95-57-8	2-Chlorophenol	SW8270C-S	UG/KG	3400	U	4000	U	5600
541-73-1	1,3-Dichlorobenzene	SW8270C-S	UG/KG	3400	U	4000	U	5600
106-46-7	1,4-Dichlorobenzene	SW8270C-S	UG/KG	1100	J	680	J	2800
95-50-1	1,2-Dichlorobenzene	SW8270C-S	UG/KG	3400	U	4000	U	5600
95-48-7	2-Methylphenol	SW8270C-S	UG/KG	3400	U	4000	U	5600
108-60-1	2,2'-oxybis(1-Chloropropane)	SW8270C-S	UG/KG	3400	U	4000	U	5600
106-44-5	4-Methylphenol	SW8270C-S	UG/KG	3400	U	4000	U	5600
621-64-7	n-Nitroso-di-n-propylamine	SW8270C-S	UG/KG	3400	U	4000	U	5600
67-72-1	Hexachloroethane	SW8270C-S	UG/KG	3400	U	4000	U	5600
98-95-3	Nitrobenzene	SW8270C-S	UG/KG	3400	U	4000	U	5600
78-59-1	Iscphorone	SW8270C-S	UG/KG	3400	U	4000	U	5600
88-75-5	2-Nitrophenol	SW8270C-S	UG/KG	3400	U	4000	U	5600
105-67-9	2,4-Dimethylphenol	SW8270C-S	UG/KG	3400	U	4000	U	5600
120-83-2	2,4-Dichlorophenol	SW8270C-S	UG/KG	3400	U	4000	U	5600
120-82-1	1,2,4-Trichlorobenzene	SW8270C-S	UG/KG	3400	U	4000	U	5600
91-20-3	Naphthalene	SW8270C-S	UG/KG	1600	J	2100	J	5800
106-47-8	4-Chloroaniline	SW8270C-S	UG/KG	3400	U	4000	U	5600
111-91-1	bis(2-Chloroethoxy)methane	SW8270C-S	UG/KG	3400	U	4000	U	5600
87-68-3	Hexachlorobutadiene	SW8270C-S	UG/KG	3400	U	4000	U	5600
59-50-7	4-Chloro-3-methylphenol	SW8270C-S	UG/KG	3400	U	4000	U	5600
91-57-6	2-Methylnaphthalene	SW8270C-S	UG/KG	7600		17000		11000
77-47-4	Hexachlorocyclopentadiene	SW8270C-S	UG/KG	3400	U	4000	U	5600
88-06-2	2,4,6-Trichlorophenol	SW8270C-S	UG/KG	3400	U	4000	U	5600
95-95-4	2,4,5-Trichlorophenol	SW8270C-S	UG/KG	7000	U	8100	U	11000
91-58-7	2-Chloronaphthalene	SW8270C-S	UG/KG	3400	U	4000	U	5600
88-74-4	2-Nitroaniline	SW8270C-S	UG/KG	7000	U	8100	U	11000
131-11-3	Dimethylphthalate	SW8270C-S	UG/KG	3400	U	4000	U	5600
208-96-8	Acenaphthylene	SW8270C-S	UG/KG	3400	U	4000	U	5600
606-20-2	2,6-Dinitrotoluene	SW8270C-S	UG/KG	3400	U	4000	U	5600
99-09-2	3-Nitroaniline	SW8270C-S	UG/KG	7000	U	8100	U	11000
83-32-9	Acenaphthene	SW8270C-S	UG/KG	3400	U	4000	U	4400
51-28-5	2,4-Dinitrophenol	SW8270C-S	UG/KG	7000	U	8100	U	8900
100-02-7	4-Nitrophenol	SW8270C-S	UG/KG	7000	U	8100	U	11000
132-64-9	Dibenzofuran	SW8270C-S	UG/KG	3400	U	3500	J	2700
121-14-2	2,4-Dinitrotoluene	SW8270C-S	UG/KG	3400	U	4000	U	5600

**Summary Table of Analytical Data**  
**Semi-Volatile Organic Compounds**  
 South Fork/South Branch Chicago River, April 20-22, 2004

Printed 7/14/2004  
 Page 6 of 12

CAS Rn	Chemical Name	Analytic Method	Sample Code	SF-2004-B08		SF-2004-B09		SF-2004-B10		SF-2004-B11		
				Location	SF-2004-B08	Sediment	SF-2004-B09	Sediment	SF-2004-B10	Sediment	SF-2004-B11	Sediment
				Unit	Date:	4/21/2004		4/21/2004		4/22/2004		4/22/2004
84-66-2	Diethylphthalate	SW8270C-S	UG/KG		3400	U	4000	U	5600	U	560	U
7005-72-3	4-Chlorophenyl-phenylether	SW8270C-S	UG/KG		3400	U	4000	U	5600	U	560	U
86-73-7	Fluorene	SW8270C-S	UG/KG		2500	J	5200		4900	J	10000	E
100-01-6	4-Nitroaniline	SW8270C-S	UG/KG		7000	U	8100	U	11000	U	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	SW8270C-S	UG/KG		7000	U	8100	U	11000	U	1100	U
86-30-6	n-Nitrosodiphenylamine	SW8270C-S	UG/KG		3400	U	4000	U	5600	U	560	U
101-55-3	4-Bromophenyl-phenylether	SW8270C-S	UG/KG		3400	U	4000	U	5600	U	560	U
118-74-1	Hexachlorobenzene	SW8270C-S	UG/KG		3400	U	4000	U	5600	U	560	U
87-53-5	Pentachlorophenol	SW8270C-S	UG/KG		7000	U	8100	U	11000	U	1100	U
85-31-8	Phenanthrone	SW8270C-S	UG/KG		20000		40000		40000		63000	E
120-12-7	Anthracene	SW8270C-S	UG/KG		2400	J	6000		5700		13000	E
86-74-8	Carbazole	SW8270C-S	UG/KG		1100	J	4000	U	4300	J	8800	
84-74-2	Di-n-butylphthalate	SW8270C-S	UG/KG		3400	U	4000	U	5600	U	560	U
205-44-0	Fluoranthene	SW8270C-S	UG/KG		20000		41000		52000		62000	E
129-00-0	Pyrene	SW8270C-S	UG/KG		15000		29000		31000		37000	E
85-68-7	Butylbenzylphthalate	SW8270C-S	UG/KG		3400	U	4000	U	5600	U	560	U
91-94-1	3,3'-Dichlorobenzidine	SW8270C-S	UG/KG		3400	U	4000	U	5600	U	560	U
56-55-3	Benz(a)anthracene	SW8270C-S	UG/KG		6600		13000		16000		48000	E
215-01-9	Chrysene	SW8270C-S	UG/KG		13000		28000		27000		2500	
117-31-7	bis(2-Ethylhexyl) phthalate	SW8270C-S	UG/KG		29000		15000		30000		17000	E
117-34-0	Di-n-octylphthalate	SW8270C-S	UG/KG		370	J	4000	U	5600	U	560	U
205-99-2	Benzo(b)fluoranthene	SW8270C-S	UG/KG		9000		19000		20000		22000	E
207-08-9	Benzo(k)fluoranthene	SW8270C-S	UG/KG		3800		5800		7600		2200	
50-32-8	Benzo(a)pyrene	SW8270C-S	UG/KG		6200		12000		14000		28000	E
193-39-5	Indeno(1,2,3-cd)pyrene	SW8270C-S	UG/KG		3300	J	5900		7600		11000	E
53-70-3	Dibenz(a,h)anthracene	SW8270C-S	UG/KG		1100	J	2000	J	2400	J	4800	
191-24-2	Benzo(g,h,i)perylene	SW8270C-S	UG/KG		3800		7200		8800		9800	E

Notes:

B = Boring/Core sample

DL = Dilution

G = Grab sample

SF = South Fork South Branch Chicago River

UG/KG = microgram's per kilogram

Data Qualifiers:

U - Compound was analyzed for but not detected (Undetected)

J - Estimated concentration

D - Compound is identified at a secondary dilution factor

E = Above calibration range

**Summary Table of Analytical Data**  
**Semi-Volatile Organic Compounds**  
 South Fork/South Branch Chicago River, April 20-22, 2004

printed 7/14/2004  
 Page 7 of 12

CAS Rn (Group Code)	Chemical Name (Group Description)	Analytic Method	Sample Code Location Sample Matrix Unit	SF-2004-B11DL	SF-2004-B12	SF-2004-B12DL	SF-2004-B13
				Date: 4/22/2004	SF-2004-B11 Sediment	SF-2004-B12 Sediment	SF-2004-B13 Sediment
108-95-2	Phenol	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
111-44-4	bis(2-Chloroethyl) ether	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
95-57-8	2-Chlorophenol	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
541-73-1	1,3-D chlorobenzene	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
106-46-7	1,4-D chlorobenzene	SW8270C-S	UG/KG	2300 DJ	550 J	3200 U	1600 U
95-50-1	1,2-Dichlorobenzene	SW8270C-S	UG/KG	5600 U	230 J	3200 U	350 J
95-48-7	2-Methylphenol	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
108-60-1	2,2'-oxybis(1-Chloropropane)	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
106-44-5	4-Methylphenol	SW8270C-S	UG/KG	5600 U	800 U	3200 U	250 J
621-64-7	n-Nitroso-di-n-propylamine	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
67-72-1	Hexachloroethane	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
98-95-3	Nitrobenzene	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
78-59-1	Isophorone	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
88-75-5	2-Nitrophenol	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
105-67-9	2,4-Dimethylphenol	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
120-83-2	2,4-Dichlorophenol	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
120-82-1	1,2,4-Trichlorobenzene	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
91-20-3	Naphthalene	SW8270C-S	UG/KG	5500 DJ	2100	1400 DJ	11000 E
106-47-8	4-Chloroaniline	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
111-91-1	bis(2-Chloroethoxy)methane	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
87-68-3	Hexachlorobutadiene	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
59-50-7	4-Chloro-3-methylpheno	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
91-57-6	2-Methylnaphthalene	SW8270C-S	UG/KG	3900 DJ	9700	8500 D	4600 U
77-47-4	Hexachlorocyclopentadiene	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
88-06-2	2,4,6-Trichlorophenol	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
95-95-4	2,4,5-Trichlorophenol	SW8270C-S	UG/KG	11000 U	1600 U	6500 U	840 U
91-58-7	2-Chloronaphthalene	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
88-74-4	2-Nitroaniline	SW8270C-S	UG/KG	11000 U	1600 U	6500 U	840 U
131-11-3	Dimethylphthalate	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
208-96-8	Acenaphthylene	SW8270C-S	UG/KG	5600 U	2400	3200 U	1100
606-20-2	2,6-Dinitrotoluene	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U
99-09-2	3-Nitroaniline	SW8270C-S	UG/KG	11000 U	1600 U	6500 U	840 U
83-32-9	Acenaphthene	SW8270C-S	UG/KG	6400 D	800 U	3200 U	8400 E
51-28-5	2,4-Dinitrophenol	SW8270C-S	UG/KG	11000 U	1600 U	6500 U	840 U
100-02-7	4-Nitrophenol	SW8270C-S	UG/KG	11000 U	1600 U	6500 U	840 U
132-64-9	Dibenzofuran	SW8270C-S	UG/KG	4100 DJ	800 U	1400 DJ	6400 U
121-14-2	2,4-Dinitrotoluene	SW8270C-S	UG/KG	5600 U	800 U	3200 U	420 U

**Summary Table of Analytical Data**  
**Semi-Volatile Organic Compounds**  
 South Fork/South Branch Chicago River, April 20-22, 2004

printed 7/14/2004  
 Page 8 of 12

CAS Rn	Chemical Name	Analytic Method	Sample Code	SF-2004-B11DL		SF 2004-B12		SF-2004-B12DL		SF-2004-B13	
				Location	Sample Matrix	SF-2004-B11	Sediment	SF-2004-B12	Sediment	SF-2004-B12	Sediment
				Unit	Date:	4/22/2004		4/22/2004		4/22/2004	
84-66-2	Diethylphthalate	SW8270C-S	UG/KG			5600 U		800 U		3200 U	
7005-72-3	4-Chlorophenyl-phenylether	SW8270C-S	UG/KG			5600 U		800 U		3200 U	
86-73-7	Fluorene	SW8270C-S	UG/KG			6300 D		800 U		2200 DJ	
100-01-6	4-Nitroaniline	SW8270C-S	UG/KG			11000 U		1600 U		6500 U	
534-52-1	4,6-Dinitro-2-methylphenol	SW8270C-S	UG/KG			11000 U		1600 U		6500 U	
86-30-6	n-Nitrosodiphenylamine	SW8270C-S	UG/KG			5600 U		800 U		3200 U	
101-55-3	4-Bromophenyl-phenylether	SW8270C-S	UG/KG			5600 U		800 U		3200 U	
118-74-1	Hexachlorobenzene	SW8270C-S	UG/KG			5600 U		800 U		3200 U	
87-86-5	Pentachlorophenol	SW8270C-S	UG/KG			11000 U		1600 U		6500 U	
85-01-8	Phenanthrene	SW8270C-S	UG/KG			72000 D		16000 E		16000 D	
120-2-7	Anthracene	SW8270C-S	UG/KG			9600 D		3000		2200 DJ	
86-74-8	Carcazole	SW8270C-S	UG/KG			7600 D		800 U		3200 U	
84-74-2	Di-n-butylphthalate	SW8270C-S	UG/KG			5600 U		800 U		3200 U	
206-44-0	Fluoranthene	SW8270C-S	UG/KG			80000 D		10000		15000 D	
129-00-0	Pyrene	SW8270C-S	UG/KG			64000 D		9400		10000 D	
85-68-7	Butylbenzylphthalate	SW8270C-S	UG/KG			5600 U		800 U		3200 U	
91-94-1	3,3'-Dichlorobenzidine	SW8270C-S	UG/KG			5600 U		800 U		3200 U	
56-55-3	Benz(a)anthracene	SW8270C-S	UG/KG			25000 D		15000 E		5000 D	
218-01-9	Chrysene	SW8270C-S	UG/KG			46000 D		1100		11000 D	
117-81-7	bis(2-Ethylhexyl) phthalate	SW8270C-S	UG/KG			12000 D		30000 E		19000 D	
117-84-0	Di-n-octylphthalate	SW8270C-S	UG/KG			5600 U		800 U		3200 U	
205-99-2	Benz(b)fluoranthene	SW8270C-S	UG/KG			33000 D		9700		7200 D	
207-08-9	Benz(k)fluoranthene	SW8270C-S	UG/KG			11000 D		1300		3100 DJ	
50-32-8	Benz(a)pyrene	SW8270C-S	UG/KG			22000 D		5600		4900 D	
193-39-5	Inceno(1,2,3-cd)pyrene	SW8270C-S	UG/KG			12000 D		4500		2800 DJ	
53-70-3	Dibenz(a,h)anthracene	SW8270C-S	UG/KG			3900 DJ		800 U		880 DJ	
191-24-2	Benz(g,h,i)perylene	SW8270C-S	UG/KG			14000 D		2500		3400 D	
											16000 E

Notes:

B = Boring/Core sample

DL = Dilution

G = Grab sample

SF = South Fork South Branch Chicago River

UG/KG = micrograms per kilogram

Data Qualifiers:

U - Compound was analyzed for but not detected (Undetected)

J - Estimated concentration

D - Compound is identified at a secondary dilution factor

E = Above calibration range

**Summary Table of Analytical Data  
Semi-Volatile Organic Compounds**  
South Fork/South Branch Chicago River, April 20-22, 2004

printec 7/14/2004  
Page 9 of 12

CAS Rn (Group Code)	Chemical Name (Group Description)	Analytic Method	Sample Code	SF-2004-B13DL	SF-2004-G01	SF-2004-G01DL	SF-2004-G02	
			Location	SF-2004-B13	SF-2004-G01	SF-2004-G01	SF-2004-G02	
		Sample Matrix	Unit	Date:	4/22/2004	4/20/2004	4/20/2004	4/20/2004
SVOCs/ENAs								
103-95-2	Phenol	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
111-44-4	bis(2-Chloroethyl) ether	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
95-57-8	2-Chlorophenol	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
541-73-1	1,3-Dichlorobenzene	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
105-46-7	1,4-Dichlorobenzene	SW8270C-S	UG/KG	1400 DJ	480 J	2300 U	1000	
95-50-1	1,2-Dichlorobenzene	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
95-43-7	2-Methylphenol	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
108-30-1	2,2'-oxybis(1-Chloropropane)	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
105-44-5	4-Methylphenol	SW8270C-S	UG/KG	8300 U	910	740 DJ	5200	
621-34-7	n-Nitroso-di-n-propylamine	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
67-72-1	Hexachloroethane	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
98-95-3	Nitrobenzene	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
78-59-1	Isophorone	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
88-75-5	2-Nitrophenol	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
105-57-9	2,4-Dimethylphenol	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
120-33-2	2,4-Dichlorophenol	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
120-32-1	1,2,4-Trichlorobenzene	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
91-20-3	Naphthalene	SW8270C-S	UG/KG	7900 DJ	940	740 DJ	880	
106-47-8	4-Chloroaniline	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
111-91-1	bis(2-Chloroethoxy)methane	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
87-63-3	Hexachlorobutadiene	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
59-50-7	4-Chloro-3-methylphenol	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
91-57-6	2-Methylnaphthalene	SW8270C-S	UG/KG	3200 DJ	710	550 DJ	900	
77-47-4	Hexachlorocyclopentadiene	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
88-06-2	2,4,6-Trichlorophenol	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
95-95-4	2,4,5-Trichlorophenol	SW8270C-S	UG/KG	17000 U	1200 U	4800 U	1600	U
91-53-7	2-Chloronaphthalene	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
88-74-4	2-Nitroaniline	SW8270C-S	UG/KG	17000 U	1200 U	4800 U	1600	U
131-11-3	Dimethylphthalate	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
208-96-8	Acenaphthylene	SW8270C-S	UG/KG	8300 U	1000	720 DJ	410 J	
606-20-2	2,6-Dinitrotoluene	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	
99-09-2	3-Nitroaniline	SW8270C-S	UG/KG	17000 U	1200 U	4800 U	1600	U
83-32-9	Acenaphthene	SW8270C-S	UG/KG	7400 DJ	1300	1000 DJ	1200	
51-23-5	2,4-Dinitrophenol	SW8270C-S	UG/KG	17000 U	1200 U	4800 U	1600	U
100-02-7	4-Nitrophenol	SW8270C-S	UG/KG	17000 U	1200 U	4800 U	1600	U
132-34-9	Dibenzofuran	SW8270C-S	UG/KG	5200 DJ	680	620 DJ	620 J	
121-14-2	2,4-Dinitrotoluene	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U	

**Summary Table of Analytical Data  
Semi-Volatile Organic Compounds**  
South Fork/South Branch Chicago River, April 20-22, 2004

printed 7/14/2004  
Page 10 of 12

CAS Rn	Chemical Name	Analytic Method	Sample Code	SF-2004-B13DL	SF-2004-G01	SF-2004-G01DL	SF-2004-G02
			Location	SF-2004-B13	SF-2004-G01	SF-2004-G01	SF-2004-G02
		Sample Matrix	Unit	Sediment	Sediment	Sediment	Sediment
				4/22/2004	4/20/2004	4/20/2004	4/20/2004
84-66-2	Diethylphthalate	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U
7005-72-3	4-Chloroophenyl-phenylether	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U
86-73-7	Fluorene	SW8270C-S	UG/KG	7900 DJ	1500 U	1200 DJ	1600 U
100-01-6	4-Nitroaniline	SW8270C-S	UG/KG	17000 U	1200 U	4800 U	1600 U
534-52-1	4,6-Dinitro-2-methylphenol	SW8270C-S	UG/KG	17000 U	1200 U	4800 U	1600 U
86-30-6	n-Nitrosodiphenylamine	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U
101-55-3	4-Bromophenyl-phenylether	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U
118-74-1	Hexachlorobenzene	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U
87-86-5	Pentachlorophenol	SW8270C-S	UG/KG	17000 U	1200 U	4800 U	1600 U
85-0'-8	Phenanthrene	SW8270C-S	UG/KG	100000 D	13000 E	10000 D	13000 E
120-12-7	Anthracene	SW8270C-S	UG/KG	12000 D	3200 U	2400 D	2900 U
86-74-8	Carbazole	SW8270C-S	UG/KG	9900 D	980 U	780 DJ	1700 U
84-74-2	Di-n-butylphthalate	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U
206-44-0	Fluoranthene	SW8270C-S	UG/KG	110000 D	18000 E	15000 D	24000 E
129-00-0	Pyrene	SW8270C-S	UG/KG	93000 D	12000 E	11000 D	16000 E
85-68-7	Butylbenzylphthalate	SW8270C-S	UG/KG	8300 U	340 J	2300 U	800 U
91-94-1	3,3'-Dichlorobenzidine	SW8270C-S	UG/KG	8300 U	590 U	2300 U	800 U
56-55-3	Benz(a)anthracene	SW8270C-S	UG/KG	34000 D	6400 U	5600 D	6900 U
218-01-9	Chrysene	SW8270C-S	UG/KG	60000 D	6300 U	9000 D	8100 U
117-81-7	bis(2-Ethylhexyl) phthalate	SW8270C-S	UG/KG	6300 DJ	12000 E	12000 D	21000 E
117-84-0	Di-n-octylphthalate	SW8270C-S	UG/KG	8300 U	590 U	480 DJ	800 U
205-99-2	Benz(b)fluoranthene	SW8270C-S	UG/KG	40000 D	6300 U	7300 D	11000 U
207-08-9	Benz(k)fluoranthene	SW8270C-S	UG/KG	15000 D	2000 U	2400 D	800 U
50-32-8	Benz(a)pyrene	SW8270C-S	UG/KG	28000 D	5000 U	5400 D	7400 U
193-39-5	Indeno(1,2,3-cc)pyrene	SW8270C-S	UG/KG	16000 D	2800 U	3000 D	4400 U
53-70-3	Dibenz(a,h)anthracene	SW8270C-S	UG/KG	4300 DJ	1000 U	880 DJ	1600 U
191-24-2	Benz(g,h,i)perylene	SW8270C-S	UG/KG	18000 D	3400 U	3400 D	4800 U

Notes:

B = Boring/Core sample

DL = Dilution

G = Grab sample

SF = South Fork South Branch Chicago R ver

UG/KG = micrograms per kilogram

Data Qualifiers:

U - Compound was analyzed for but not detected (Undetected)

J - Estimated concentration

D - Compound is identified at a secondary dilution factor

E = Above calibration range

**Summary Table of Analytical Data  
Semi-Volatile Organic Compounds**  
South Fork/South Branch Chicago River, April 20-22, 2004

Printed 7/14/2004  
Page 11 of 12

CAS Rn (Group Code)	Chemical Name (Group Description)	Analytic Method	Sample Code	SF-2004-G02DL	SF-2004-G03	SF-2004-G04	SF-2004-G05	
			Location Sample Matrix	SF-2004-G02 Sediment	SF-2004-G03 Sediment	SF-2004-G04 Sediment	SF-2004-G05 Sediment	
			Unit	Date:	4/20/2004	4/21/2004	4/21/2004	4/22/2004
<b>SVOCs/ENAs</b>								
103-95-2	Phenol	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
111-44-4	bis(2-Chloroethyl) ether	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
95-57-8	2-Chloropheno	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
541-73-1	1,3-Dichlorobenzene	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
105-46-7	1,4-Dichlorobenzene	SW8270C-S	UG/KG	900 DJ	4200 U	420 J	110 J	
95-50-1	1,2-Dichlorobenzene	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
95-48-7	2-Methylphenol	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
103-50-1	2,2'-oxybis(1-Chloropropane)	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
105-44-5	4-Methylphenol	SW8270C-S	UG/KG	4000 D	530 J	1200 J	430 U	
621-64-7	n-Nitroso-di-n-propylamine	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
67-72-1	Hexachloroethane	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
98-95-3	Nitrobenzene	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
78-59-1	Isophorone	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
88-75-5	2-Nitrophenol	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
105-57-9	2,4-Dimethylphenol	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
120-83-2	2,4-Dichlorophenol	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
120-82-1	1,2,4-Trichlorobenzene	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
91-23-3	Naphthalene	SW8270C-S	UG/KG	3200 U	980 J	360 J	120 J	
105-47-8	4-Chloroaniline	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
111-91-1	bis(2-Chloroethoxy)methane	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
87-63-3	Hexachlorobutadiene	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
59-50-7	4-Chloro-3-methylpheno	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
91-57-6	2-Methylnaphthalene	SW8270C-S	UG/KG	690 DJ	4400 U	260 J	120 J	
77-47-4	Hexachlorocyclopentadiene	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
88-06-2	2,4,6-Trichlorophenol	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
95-95-4	2,4,5-Trichlorophenol	SW8270C-S	UG/KG	6500 U	8600 U	940 U	880 U	
91-58-7	2-Chlororaphthalene	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
88-74-4	2-Nitroaniline	SW8270C-S	UG/KG	6500 U	8600 U	940 U	880 U	
131-11-3	Dimethylphthalate	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
208-96-8	Acenaphthylene	SW8270C-S	UG/KG	3200 U	4200 U	120 J	430 U	
606-20-2	2,6-Dinitrotoluene	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	
99-09-2	3-Nitroaniline	SW8270C-S	UG/KG	6500 U	8600 U	940 U	880 U	
83-32-9	Acenaphthene	SW8270C-S	UG/KG	810 DJ	4200 U	310 J	160 J	
51-28-5	2,4-Dinitrophenol	SW8270C-S	UG/KG	6500 U	8600 U	940 U	880 U	
100-02-7	4-Nitrophenol	SW8270C-S	UG/KG	6500 U	8600 U	940 U	880 U	
132-64-9	Dibenzofuran	SW8270C-S	UG/KG	550 DJ	960 J	200 J	83 J	
121-14-2	2,4-Dinitrotoluene	SW8270C-S	UG/KG	3200 U	4200 U	460 U	430 U	

**Summary Table of Analytical Data  
Semi-Volatile Organic Compounds**  
South Fork/South Branch Chicago River, April 20-22, 2004

printed 7/14/2004  
Page 12 of 12

CAS Rn	Chemical Name	Analytic Method	Sample Code	Sample Location	SF-2004-G02DL	SF-2004-G03	SF-2004-G04	SF-2004-G05
				Matrix	SF-2004-G02	SF-2004-G03	SF-2004-G04	SF-2004-G05
				Unit	Date: 4/20/2004	Date: 4/21/2004	Date: 4/21/2004	Date: 4/22/2004
84-66-2	Diethylphthalate	SW8270C-S	UG/KG		3200 U	4200 U	460 U	430 U
7005-72-3	4-Chlorophenyl-phenylether	SW8270C-S	UG/KG		3200 U	4200 U	460 U	430 U
86-73-7	Fluorene	SW8270C-S	UG/KG		1000 DJ	1400 J	360 J	160 J
100-01-6	4-Nitroaniline	SW8270C-S	UG/KG		6500 U	8600 U	940 U	880 U
534-52-1	4,6-Dinitro-2-methylphenol	SW8270C-S	UG/KG		6500 U	8600 U	940 U	880 U
86-30-6	n-Nitrosodiphenylamine	SW8270C-S	UG/KG		3200 U	4200 U	460 U	430 U
101-55-3	4-Bromophenyl-phenylether	SW8270C-S	UG/KG		3200 U	4200 U	460 U	430 U
118-74-1	Hexachlorobenzene	SW8270C-S	UG/KG		3200 U	4200 U	460 U	430 U
87-86-5	Pentachlorophenol	SW8270C-S	UG/KG		6500 U	8600 U	940 U	880 U
85-01-8	Phenanthrene	SW8270C-S	UG/KG		11000 D	8800	4000	1800
120-27-7	Anthracene	SW8270C-S	UG/KG		2100 DJ	1300 J	770	280 J
86-74-8	Carbazole	SW8270C-S	UG/KG		1300 DJ	810 J	500	430 U
84-74-2	Di-n-butylphthalate	SW8270C-S	UG/KG		3200 U	4200 U	460 U	83 J
206-44-0	Fluoranthene	SW8270C-S	UG/KG		19000 D	11000	7200	5200
129-00-0	Pyrene	SW8270C-S	UG/KG		14000 D	7100	4000	1600
85-68-7	Butylbenzylphthalate	SW8270C-S	UG/KG		880 DJ	4200 U	460 U	430 U
91-94-1	3,3'-Dichlorobenzidine	SW8270C-S	UG/KG		3200 U	4200 U	460 U	430 U
56-55-3	Benzo(a)anthracene	SW8270C-S	UG/KG		6800 D	3800 J	2000	920
218-01-9	Chrysene	SW8270C-S	UG/KG		12000 D	7600	2600	1200
117-81-7	bis(2-Ethylhexyl) phthalate	SW8270C-S	UG/KG		20000 D	37000	5200	2500
117-84-0	Di-n-octylphthalate	SW8270C-S	UG/KG		820 DJ	4200 U	460 U	430 U
205-99-2	Benzo(b)fluoranthene	SW8270C-S	UG/KG		9400 D	5700	2500	1200
207-08-9	Benzo(k)fluoranthene	SW8270C-S	UG/KG		3000 DJ	2000 J	770	84 J
50-32-8	Benzo(a)pyrene	SW8270C-S	UG/KG		5800 D	3600 J	3400	880
193-39-5	Indeno[1,2,3-cd]pyrene	SW8270C-S	UG/KG		3400 D	2100 J	1300	1800
53-70-3	Dibenz[a,h]anthracene	SW8270C-S	UG/KG		950 DJ	650 J	460 U	740
191-24-2	Benzo(g,h,i)perylene	SW8270C-S	UG/KG		4200 D	2600 J	1200	2400

Notes:

B = Boring/Core sample

DL = Dilution

G = Grab sample

SF = South Fork South Branch Chicago R ver

UG/KG = micrograms per kilogram

Data Qualifiers:

U - Compound was analyzed for but not detected (Undetected)

J - Estimated concentration

D - Compound is identified at a secondary dilution factor

E = Above calibration range

# **Appendix C**

## **BMcD Sediment Data & Figure**

# **DRAFT**

**DRAFT RIVER SEDIMENT INVESTIGATION SUMMARY  
FOR  
THE FORMER PITNEY COURT STATION  
  
CHICAGO, ILLINOIS**

**Prepared for:**

**THE PEOPLES GAS  
LIGHT and COKE COMPANY**

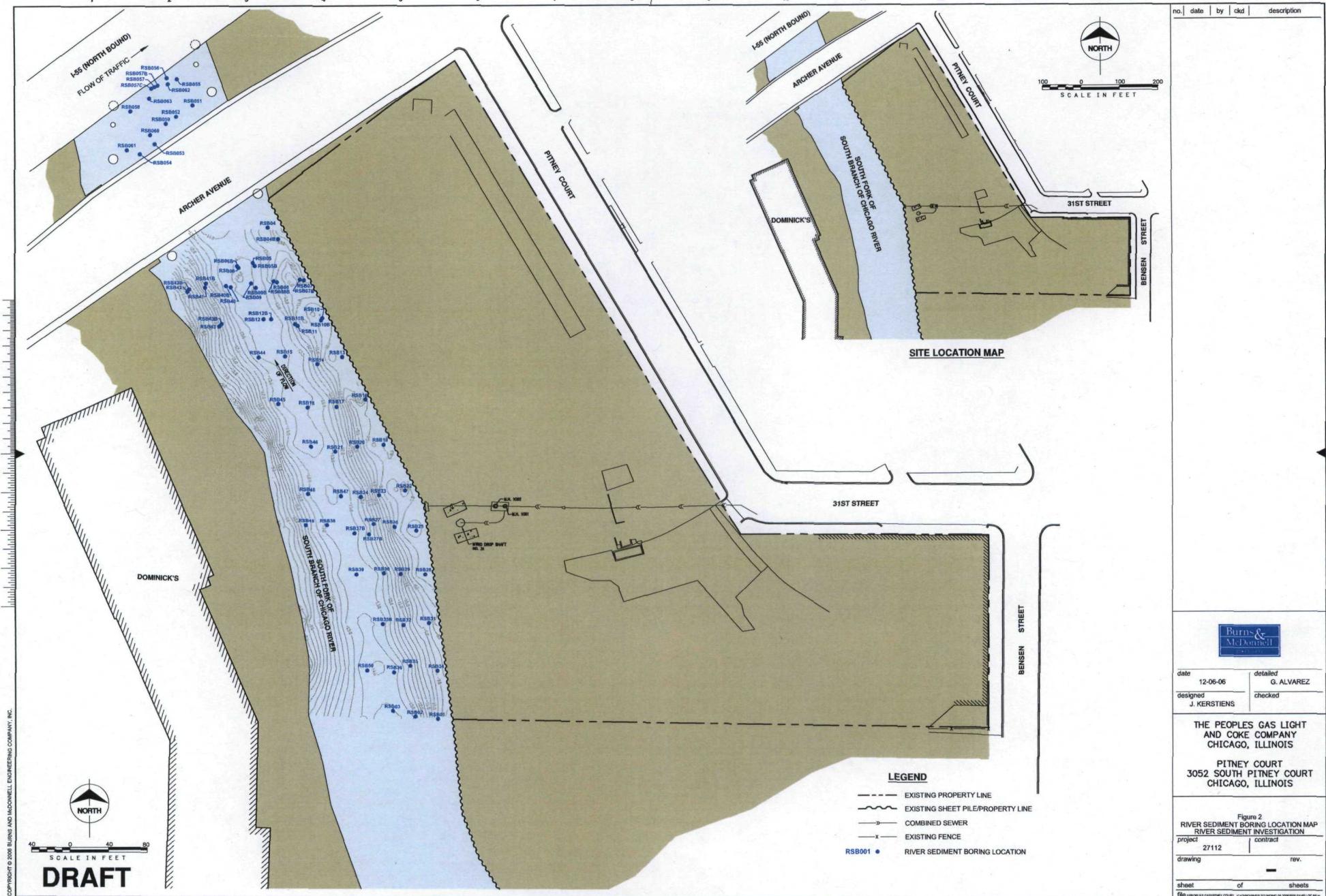
**Prepared by:**

**Burns & McDonnell Engineering  
Company, Inc.  
1431 Opus Place, Suite 400  
Downers Grove, Illinois 60515-1164  
630-724-3200**

**PROJECT NO. 27112**

**December 2006**

This draft river sediment investigation (RSI) summary presents figures, TarGOST™ logs, boring logs and forensic analytical results collected to date in the South Fork of the South Branch of the Chicago River (River) adjacent to the former Pitney Court Station (Site). The first phase of RSI activities was conducted in June and July 2006. The second phase of activities was conducted in September and October 2006. A comprehensive evaluation and presentation of RSI findings will be prepared in the forthcoming RSI Report.



## **Appendix C**

### **MAH/PAH Concentrations**

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Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** **PCS-RSB-017-001 (2'-4')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method	EPA 8270M
Lab ID	BR060630-01-R		
File ID	E071114.D	Matrix:	Soil
Date Sampled:	6/29/2006	Preservation:	None
Date Received	6/30/2006	Decanted:	None
Date Prepared:	7/7/2006	Sample Size (g):	1.07
Date Cleanup:	NA	Percent Solid:	42%
Date Analyzed:	7/12/2006	Extract Volume ( $\mu$ l):	5000
Instrument	EI Camino	Prep DF	1.00
Operator	JAR	Analysis DF	1.00
		Injection Volume ( $\mu$ l)	1.00
Batch QC:	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS:				
Benzene	2.38	0.553	0.276	
Toluene	6.29	0.553	0.276	
Ethylbenzene	0.835	0.111	0.056	
m/p-Xylenes	8.58	0.111	0.056	
Styrene	0.451 B	0.111	0.056	
o-Xylene	0.656	0.111	0.056	
Isopropylbenzene	0.159	0.111	0.056	
n-Propylbenzene	0.977	0.111	0.056	
1,3,5-Trimethylbenzene	0.820	0.111	0.056	
1,2,4-Trimethylbenzene	2.33	0.111	0.056	
t-Butylbenzene	U	0.111	0.056	
sec-Butylbenzene	0.406	0.111	0.056	
p-Isopropyltoluene	2.7	0.111	0.056	
n-Butylbenzene	3.02	0.111	0.056	
C1 - Benzene	3.9	0.553	0.276	
C2 - Benzene	4.58	0.111	0.056	
C3 - Benzene	3.26	0.111	0.056	
C4 - Benzene	8.09	0.111	0.056	
C5 - Benzene	11.4	0.111	0.056	
trans-Decalin	9.48	0.111	0.056	
cis-Decalin	0.716	0.111	0.056	
Naphthalene	3.3 B	0.111	0.056	
2-Methylnaphthalene	10.5 B	0.111	0.056	
1-Methylnaphthalene	5.87	0.111	0.056	
C1 - Naphthalene	10.1 B	0.111	0.056	
C2 - Naphthalene	39.2	0.111	0.056	
C3 - Naphthalene	54.8	0.111	0.056	
C4 - Naphthalene	40.0	0.111	0.056	
Acenaphthylene	2.14	0.111	0.056	
Acenaphthene	1.9	0.111	0.056	
Dibenzofuran	2.58	0.111	0.056	
Fluorene	4.09	0.111	0.056	
C1 - Fluorene	8.59	0.111	0.056	
C2 - Fluorene	13.3	0.111	0.056	
C3 - Fluorene	13.2	0.111	0.056	
Phenanthrene	23.4 B	0.111	0.056	
Anthracene	5.12	0.111	0.056	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-017-001 (2'-4')

Client Project:	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060630-01-R	Matrix:	Soil
File ID:	E071114.D	Preservation:	None
Date Sampled	6/29/2006	Decanted:	None
Date Received:	6/30/2006		
Date Prepared:	7/7/2006	Sample Size (g):	1.07
Date Cleanup:	NA	Percent Solid	42%
Date Analyzed:	7/12/2006	Extract Volume ( $\mu$ l):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	29.4	0.111	0.056	
C2 - Phenanthrene/Anthracene	27.9	0.111	0.056	
C3 - Phenanthrene/Anthracene	15.8	0.111	0.056	
C4 - Phenanthrene/Anthracene	7.78	0.111	0.056	
Dibenzothiophene	4.55	0.111	0.056	
C1 - Dibenzothiophene	13.1	0.111	0.056	
C2 - Dibenzothiophene	17.9	0.111	0.056	
C3 - Dibenzothiophene	14.5	0.111	0.056	
C4 - Dibenzothiophene	7.17	0.111	0.056	
Benzo(b)naphtho(2,1-d)thiophene	2.85	0.111	0.056	
Fluoranthene	26.7	0.111	0.056	
Pyrene	24.3	0.111	0.056	
C1 - Fluoranthene/Pyrene	15.7	0.111	0.056	
C2 - Fluoranthene/Pyrene	9.12	0.111	0.056	
C3 - Fluoranthene/Pyrene	5.55	0.111	0.056	
Benz[a]anthracene	10.2	0.111	0.056	
Chrysene*	13.8	0.111	0.056	
C1 - Benz(a)anthracene/Chrysene	6.74	0.111	0.056	
C2 - Benz(a)anthracene/Chrysene	4.92	0.111	0.056	
C3 - Benz(a)anthracene/Chrysene	3.16	0.111	0.056	
C4 - Benz(a)anthracene/Chrysene	2.08	0.111	0.056	
Benzo[b]fluoranthene	10.4	0.111	0.056	
Benzo[j/k]fluoranthene	9.77	0.111	0.056	
Benzo(e)pyrene	8.42	0.111	0.056	
Benzo[a]pyrene	9.85	0.111	0.056	
Perylene	2.44	0.111	0.056	
Indeno[1,2,3-cd]pyrene	7.3	0.111	0.056	
Dibenzo[a,h]anthracene	1.71	0.111	0.056	
Benzo[g,h,i]perylene	6.55	0.111	0.056	
Coronene	1.58	0.111	0.056	
Retene	14.3	0.111	0.056	
Benzo(b/c)fluorenes	3.05	0.111	0.056	
2-Methylpyrene	2.15	0.111	0.056	
4-Methylpyrene	2.07	0.111	0.056	
1-Methylpyrene	1.53	0.111	0.056	
Heptadecane	U	0.111	0.056	
Pristane	146	0.111	0.056	
Octadecane	U	0.111	0.056	
Phytane	93.3	0.111	0.056	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-017-001 (2'-4')

Client Project:	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s)	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060630-01-R		
File ID:	E071114 D	Matrix:	Soil
		Preservation:	None
Date Sampled:	6/29/2006	Decanted:	None
Date Received:	6/30/2006		
Date Prepared:	7/7/2006	Sample Size (g):	1.07
Date Cleanup:	NA	Percent Solid:	42%
Date Analyzed:	7/12/2006	Extract Volume ( $\mu$ l)	5000
Instrument	EI Camino	Prep DF	1.00
Operator:	JAR	Analysis DF	1.00
		Injection Volume ( $\mu$ l)	1.00
Batch QC.	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	56.3	0.111	0.056	
2,6,10-trimethyltridecane	99.6	0.111	0.056	
Norpristane	78.6	0.111	0.056	
Total PAH (16)	160	0.111	0.056	
Total PAH (42)	538	0.111	0.056	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	57	Limits
Phenanthrene-d10	73	50 - 120
Perylene-d12	78	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration

EDL - Estimated detection limit is 50% of RL

\* - Triphenylene is known to coelute with this compound.

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID:** **PCS-RSB-021-001 (2'-4')**

Client Project.	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s):	NA
		Analysis Method	EPA 8270M
Lab ID	BR060707-01	Matrix:	Soil
File ID:	E071107.D	Preservation:	None
Date Sampled:	6/30/2006	Decanted:	None
Date Received:	7/7/2006	Sample Size (g):	1.13
Date Prepared:	7/7/2006	Percent Solid:	50%
Date Cleanup:	NA	Extract Volume ( $\mu$ l):	5000
Date Analyzed:	7/12/2006	Prep DF:	1.00
Instrument Operator:	EI Camino JAR	Analysis DF:	1.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
<b>MAH &amp; PAH COMPOUNDS:</b>				
Benzene	1.19	0.440	0.220	
Toluene	8.9	0.440	0.220	
Ethylbenzene	1.01	0.088	0.044	
m/p-Xylenes	7.02	0.088	0.044	
Styrene	0.226 B	0.088	0.044	
o-Xylene	1.26	0.088	0.044	
Isopropylbenzene	0.255	0.088	0.044	
n-Propylbenzene	0.793	0.088	0.044	
1,3,5-Trimethylbenzene	1.47	0.088	0.044	
1,2,4-Trimethylbenzene	4.35	0.088	0.044	
t-Butylbenzene	U	0.088	0.044	
sec-Butylbenzene	0.493	0.088	0.044	
p-Isopropyltoluene	2.74	0.088	0.044	
n-Butylbenzene	1.89	0.088	0.044	
C1 - Benzene	5.52	0.440	0.220	
C2 - Benzene	4.14	0.088	0.044	
C3 - Benzene	5.12	0.088	0.044	
C4 - Benzene	9.47	0.088	0.044	
C5 - Benzene	9.68	0.088	0.044	
trans-Decalin	4.88	0.088	0.044	
cis-Decalin	0.486	0.088	0.044	
Naphthalene	3.61 B	0.088	0.044	
2-Methylnaphthalene	13.5 B	0.088	0.044	
1-Methylnaphthalene	8.13	0.088	0.044	
C1 - Naphthalene	13.4 B	0.088	0.044	
C2 - Naphthalene	37.1	0.088	0.044	
C3- Naphthalene	42.5	0.088	0.044	
C4- Naphthalene	29.2	0.088	0.044	
Acenaphthylene	0.808	0.088	0.044	
Acenaphthene	1.91	0.088	0.044	
Dibenzofuran	1.81	0.088	0.044	
Fluorene	3.42	0.088	0.044	
C1 - Fluorene	7.37	0.088	0.044	
C2 - Fluorene	11.5	0.088	0.044	
C3 - Fluorene	9.32	0.088	0.044	
Phenanthrene	17.1 B	0.088	0.044	
Anthracene	2.97	0.088	0.044	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-021-001 (2'-4')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID:	BR060707-01		
File ID:	E071107.D	Matrix:	Soil
Date Sampled:	6/30/2006	Preservation:	None
Date Received:	7/7/2006	Decanted:	None
Date Prepared:	7/7/2006	Sample Size (g):	1.13
Date Cleanup:	NA	Percent Solid:	50%
Date Analyzed:	7/12/2006	Extract Volume (µl):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	20.3	0.088	0.044	
C2 - Phenanthrene/Anthracene	17.1	0.088	0.044	
C3 - Phenanthrene/Anthracene	8.8	0.088	0.044	
C4 - Phenanthrene/Anthracene	3.51	0.088	0.044	
Dibenzothiophene	3.28	0.088	0.044	
C1 - Dibenzothiophene	9.28	0.088	0.044	
C2 - Dibenzothiophene	11.0	0.088	0.044	
C3 - Dibenzothiophene	8.41	0.088	0.044	
C4 - Dibenzothiophene	3.68	0.088	0.044	
Benzo(b)naphtho(2,1-d)thiophene	1.52	0.088	0.044	
Fluoranthene	17.3	0.088	0.044	
Pyrene	15.0	0.088	0.044	
C1 - Fluoranthene/Pyrene	8.83	0.088	0.044	
C2 - Fluoranthene/Pyrene	5.8	0.088	0.044	
C3 - Fluoranthene/Pyrene	3.31	0.088	0.044	
Benz[a]anthracene	6.19	0.088	0.044	
Chrysene*	8.2	0.088	0.044	
C1 - Benz(a)anthracene/Chrysene	3.85	0.088	0.044	
C2 - Benz(a)anthracene/Chrysene	2.88	0.088	0.044	
C3 - Benz(a)anthracene/Chrysene	2.18	0.088	0.044	
C4 - Benz(a)anthracene/Chrysene	1.27	0.088	0.044	
Benzo[b]fluoranthene	6.46	0.088	0.044	
Benzo[j/k]fluoranthene	6.06	0.088	0.044	
Benzo(e)pyrene	5.19	0.088	0.044	
Benzo[a]pyrene	6.13	0.088	0.044	
Perylene	1.7	0.088	0.044	
Indeno[1,2,3-cd]pyrene	4.47	0.088	0.044	
Dibenzo[a,h]anthracene	0.949	0.088	0.044	
Benzo[g,h,i]perylene	4.08	0.088	0.044	
Coronene	1.0	0.088	0.044	
Retene	2.26	0.088	0.044	
Benzo(b/c)fluorenes	1.66	0.088	0.044	
2-Methylpyrene	1.15	0.088	0.044	
4-Methylpyrene	1.12	0.088	0.044	
1-Methylpyrene	0.841	0.088	0.044	
Heptadecane	U	0.088	0.044	
Pristane	68.3	0.088	0.044	
Octadecane	U	0.088	0.044	
Phytane	43.7	0.088	0.044	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID:** **PCS-RSB-021-001 (2'-4')**

Client Project	Burns & McDonnell Pitney Court	Preparation Method	EPA 3570
		Cleanup Method(s)	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060707-01	Matrix	Soil
File ID.	E071107 D	Preservation:	None
Date Sampled:	6/30/2006	Decanted:	None
Date Received:	7/7/2006		
Date Prepared:	7/7/2006	Sample Size (g):	1.13
Date Cleanup:	NA	Percent Solid:	50%
Date Analyzed:	7/12/2006	Extract Volume (µl):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl)	1.00
Batch QC.	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	28.5	0.088	0.044	
2,6,10-trimethyltridecane	39.1	0.088	0.044	
Norpristane	34.8	0.088	0.044	
Total PAH (16)	105	0.088	0.044	
Total PAH (42)	377	0.088	0.044	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	58	Limits
Phenanthrene-d10	59	50 - 120
Perylene-d12	72	50 - 120

NA - Not applicable

B - Analyte detected in the Blank.

J - Estimated value, detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration

EDL - Estimated detection limit is 50% of RL.

\* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-025-001 (3'-4')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s)	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060707-02		
File ID	E071108 D	Matrix	Soil
		Preservation	None
Date Sampled:	7/6/2006	Decanted	None
Date Received:	7/7/2006		
Date Prepared:	7/7/2006	Sample Size (g):	1.57
Date Cleanup:	NA	Percent Solid:	59%
Date Analyzed:	7/12/2006	Extract Volume ( $\mu$ l):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
<b>MAH &amp; PAH COMPOUNDS</b>				
Benzene	0.404	0.270	0.135	
Toluene	2.58	0.270	0.135	
Ethylbenzene	0.110	0.054	0.027	
m/p-Xylenes	1.62	0.054	0.027	
Styrene	0.156 B	0.054	0.027	
o-Xylene	0.242	0.054	0.027	
Isopropylbenzene	0.066	0.054	0.027	
n-Propylbenzene	0.220	0.054	0.027	
1,3,5-Trimethylbenzene	0.416	0.054	0.027	
1,2,4-Trimethylbenzene	1.03	0.054	0.027	
t-Butylbenzene	0.139	0.054	0.027	
sec-Butylbenzene	0.142	0.054	0.027	
p-Isopropyltoluene	0.388	0.054	0.027	
n-Butylbenzene	0.520	0.054	0.027	
C1 - Benzene	1.6	0.270	0.135	
C2 - Benzene	0.902	0.054	0.027	
C3 - Benzene	1.27	0.054	0.027	
C4 - Benzene	2.73	0.054	0.027	
C5 - Benzene	3.39	0.054	0.027	
trans-Decalin	1.88	0.054	0.027	
cis-Decalin	0.213	0.054	0.027	
Naphthalene	0.775 B	0.054	0.027	
2-Methylnaphthalene	3.83 B	0.054	0.027	
1-Methylnaphthalene	2.48	0.054	0.027	
C1 - Naphthalene	3.88 B	0.054	0.027	
C2 - Naphthalene	12.3	0.054	0.027	
C3 - Naphthalene	14.7	0.054	0.027	
C4 - Naphthalene	10.1	0.054	0.027	
Acenaphthylene	0.280	0.054	0.027	
Acenaphthene	0.579	0.054	0.027	
Dibenzofuran	0.466	0.054	0.027	
Fluorene	0.986	0.054	0.027	
C1 - Fluorene	2.64	0.054	0.027	
C2 - Fluorene	4.56	0.054	0.027	
C3 - Fluorene	3.81	0.054	0.027	
Phenanthrene	5.01 B	0.054	0.027	
Anthracene	0.933	0.054	0.027	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-025-001 (3'-4')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project	Pitney Court	Cleanup Method(s)	NA
		Analysis Method.	EPA 8270M
Lab ID	BR060707-02		
File ID:	E071108.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	7/6/2006	Decanted	None
Date Received:	7/7/2006		
Date Prepared:	7/7/2006	Sample Size (g).	1.57
Date Cleanup:	NA	Percent Solid	59%
Date Analyzed	7/12/2006	Extract Volume (µl)	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	7.65	0.054	0.027	
C2 - Phenanthrene/Anthracene	8.11	0.054	0.027	
C3 - Phenanthrene/Anthracene	4.35	0.054	0.027	
C4 - Phenanthrene/Anthracene	1.53	0.054	0.027	
Dibenzothiophene	0.976	0.054	0.027	
C1 - Dibenzothiophene	3.38	0.054	0.027	
C2 - Dibenzothiophene	4.45	0.054	0.027	
C3 - Dibenzothiophene	3.54	0.054	0.027	
C4 - Dibenzothiophene	1.57	0.054	0.027	
Benzo(b)naphtho(2,1-d)thiophene	0.497	0.054	0.027	
Fluoranthene	4.92	0.054	0.027	
Pyrene	4.62	0.054	0.027	
C1 - Fluoranthene/Pyrene	3.2	0.054	0.027	
C2 - Fluoranthene/Pyrene	2.33	0.054	0.027	
C3 - Fluoranthene/Pyrene	1.29	0.054	0.027	
Benz[a]anthracene	2.01	0.054	0.027	
Chrysene*	2.65	0.054	0.027	
C1 - Benz(a)anthracene/Chrysene	1.65	0.054	0.027	
C2 - Benz(a)anthracene/Chrysene	1.34	0.054	0.027	
C3 - Benz(a)anthracene/Chrysene	1.04	0.054	0.027	
C4 - Benz(a)anthracene/Chrysene	0.602	0.054	0.027	
Benzo[b]fluoranthene	1.99	0.054	0.027	
Benzo[j/k]fluoranthene	1.88	0.054	0.027	
Benzo(e)pyrene	1.7	0.054	0.027	
Benzo[a]pyrene	2.07	0.054	0.027	
Perylene	0.522	0.054	0.027	
Indeno[1,2,3-cd]pyrene	1.44	0.054	0.027	
Dibenz[a,h]anthracene	0.339	0.054	0.027	
Benzo[g,h,i]perylene	1.34	0.054	0.027	
Coronene	0.345	0.054	0.027	
Retene	0.796	0.054	0.027	
Benzo(b/c)fluorenes	0.546	0.054	0.027	
2-Methylpyrene	0.466	0.054	0.027	
4-Methylpyrene	0.456	0.054	0.027	
1-Methylpyrene	0.379	0.054	0.027	
Heptadecane	3.72	0.054	0.027	
Pristane	22.1	0.054	0.027	
Octadecane	3.06	0.054	0.027	
Phytane	14.7	0.054	0.027	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-025-001 (3'-4')

Client Project	Burns & McDonnell Pitney Court	Preparation Method: Cleanup Method(s). Analysis Method	EPA 3570 NA EPA 8270M
Lab ID	BR060707-02		
File ID:	E071108.D	Matrix: Preservation. Decanted:	Soil None None
Date Sampled:	7/6/2006	Sample Size (g):	1.57
Date Received:	7/7/2006	Percent Solid:	59%
Date Prepared:	7/7/2006	Extract Volume ( $\mu$ l):	5000
Date Cleanup:	NA	Prep DF	1.00
Date Analyzed:	7/12/2006	Analysis DF	1.00
Instrument	EI Camino	Injection Volume ( $\mu$ l):	1.00
Operator	JAR		
Batch QC:	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	9.56	0.054	0.027	
2,6,10-trimethyltridecane	13.1	0.054	0.027	
Norpristane	10.3	0.054	0.027	
Total PAH (16)	31.8	0.054	0.027	
Total PAH (42)	134	0.054	0.027	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	55	Limits
Phenanthrene-d10	66	50 - 120
Perylene-d12	72	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

\* - Triphenylene is known to coelute with this compound

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-046-001 (6'-6.5')**

Client Project:	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060707-03	Matrix:	Soil
File ID:	E071110.D	Preservation:	None
Date Sampled:	6/30/2006	Decanted:	None
Date Received:	7/7/2006		
Date Prepared:	7/7/2006	Sample Size (g):	1.14
Date Cleanup:	NA	Percent Solid:	41%
Date Analyzed:	7/12/2006	Extract Volume (µl):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS:				
Benzene	1.8	0.531	0.266	
Toluene	6.66	0.531	0.266	
Ethylbenzene	0.970	0.106	0.053	
m/p-Xylenes	8.05	0.106	0.053	
Styrene	0.414 B	0.106	0.053	
o-Xylene	1.08	0.106	0.053	
Isopropylbenzene	0.231	0.106	0.053	
n-Propylbenzene	1.06	0.106	0.053	
1,3,5-Trimethylbenzene	1.21	0.106	0.053	
1,2,4-Trimethylbenzene	3.39	0.106	0.053	
t-Butylbenzene	U	0.106	0.053	
sec-Butylbenzene	0.681	0.106	0.053	
p-Isopropyltoluene	3.48	0.106	0.053	
n-Butylbenzene	3.72	0.106	0.053	
C1 - Benzene	4.11	0.531	0.266	
C2 - Benzene	4.55	0.106	0.053	
C3 - Benzene	4.4	0.106	0.053	
C4 - Benzene	12.0	0.106	0.053	
C5 - Benzene	17.0	0.106	0.053	
trans-Decalin	11.9	0.106	0.053	
cis-Decalin	0.782	0.106	0.053	
Naphthalene	3.91 B	0.106	0.053	
2-Methylnaphthalene	21.0 B	0.106	0.053	
1-Methylnaphthalene	11.8	0.106	0.053	
C1 - Naphthalene	20.3 B	0.106	0.053	
C2 - Naphthalene	77.2	0.106	0.053	
C3- Naphthalene	96.2	0.106	0.053	
C4- Naphthalene	63.3	0.106	0.053	
Acenaphthylene	2.74	0.106	0.053	
Acenaphthene	3.12	0.106	0.053	
Dibenzofuran	3.78	0.106	0.053	
Fluorene	6.21	0.106	0.053	
C1 - Fluorene	14.4	0.106	0.053	
C2 - Fluorene	23.8	0.106	0.053	
C3 - Fluorene	18.8	0.106	0.053	
Phenanthrene	31.4 B	0.106	0.053	
Anthracene	6.7	0.106	0.053	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-046-001 (6'-6.5')

Client Project:	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID:	BR060707-03	Matrix:	Soil
File ID:	E071110.D	Preservation:	None
Date Sampled:	6/30/2006	Decanted:	None
Date Received:	7/7/2006		
Date Prepared:	7/7/2006	Sample Size (g)	1.14
Date Cleanup:	NA	Percent Solid:	41%
Date Analyzed:	7/12/2006	Extract Volume ( $\mu$ l)	5000
Instrument:	EI Camino	Prep DF	1.00
Operator:	JAR	Analysis DF	1.00
		Injection Volume ( $\mu$ l)	1.00
Batch QC:	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	44.2	0.106	0.053	
C2 - Phenanthrene/Anthracene	39.7	0.106	0.053	
C3 - Phenanthrene/Anthracene	20.4	0.106	0.053	
C4 - Phenanthrene/Anthracene	9.62	0.106	0.053	
Dibenzothiophene	8.18	0.106	0.053	
C1 - Dibenzothiophene	21.2	0.106	0.053	
C2 - Dibenzothiophene	25.4	0.106	0.053	
C3 - Dibenzothiophene	17.2	0.106	0.053	
C4 - Dibenzothiophene	8.01	0.106	0.053	
Benzo(b)naphtho(2,1-d)thiophene	2.97	0.106	0.053	
Fluoranthene	28.1	0.106	0.053	
Pyrene	26.0	0.106	0.053	
C1 - Fluoranthene/Pyrene	18.4	0.106	0.053	
C2 - Fluoranthene/Pyrene	10.4	0.106	0.053	
C3 - Fluoranthene/Pyrene	5.81	0.106	0.053	
Benz[a]anthracene	11.3	0.106	0.053	
Chrysene*	14.5	0.106	0.053	
C1 - Benz(a)anthracene/Chrysene	7.37	0.106	0.053	
C2 - Benz(a)anthracene/Chrysene	4.98	0.106	0.053	
C3 - Benz(a)anthracene/Chrysene	3.43	0.106	0.053	
C4 - Benz(a)anthracene/Chrysene	2.16	0.106	0.053	
Benzo[b]fluoranthene	10.7	0.106	0.053	
Benzo[j/k]fluoranthene	10.6	0.106	0.053	
Benzo(e)pyrene	8.8	0.106	0.053	
Benzo[a]pyrene	10.8	0.106	0.053	
Perylene	2.64	0.106	0.053	
Indeno[1,2,3-cd]pyrene	7.6	0.106	0.053	
Dibenz[a,h]anthracene	1.76	0.106	0.053	
Benzol[g,h,i]perylene	6.86	0.106	0.053	
Coronene	1.6	0.106	0.053	
Retene	17.2	0.106	0.053	
Benzo(b/c)fluorenes	3.38	0.106	0.053	
2-Methylpyrene	2.53	0.106	0.053	
4-Methylpyrene	2.52	0.106	0.053	
1-Methylpyrene	1.86	0.106	0.053	
Heptadecane	12.8	0.106	0.053	
Pristane	160	0.106	0.053	
Octadecane	7.39	0.106	0.053	
Phytane	106	0.106	0.053	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** **PCS-RSB-046-001 (6'-6.5')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060707-03	Matrix:	Soil
File ID:	E071110.D	Preservation:	None
Date Sampled:	6/30/2006	Decanted:	None
Date Received:	7/7/2006	Sample Size (g)	1.14
Date Prepared:	7/7/2006	Percent Solid	41%
Date Clean up:	NA	Extract Volume ( $\mu$ l):	5000
Date Analyzed:	7/12/2006	Prep DF:	1.00
Instrument:	EI Camino	Analysis DF:	1.00
Operator:	JAR	Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	55.6	0.106	0.053	
2,6,10-trimethyltridecane	98.1	0.106	0.053	
Norpristane	78.4	0.106	0.053	
Total PAH (16)	182	0.106	0.053	
Total PAH (42)	758	0.106	0.053	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	66	Limits
Phenanthrene-d10	82	50 - 120
Perlylene-d12	87	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value, detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract

F - Estimate result detected above calibration range

I - Concentration/Peak ID uncertain due to potential interference

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration

EDL - Estimated detection limit is 50% of RL.

\* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-047-001 (5'-6')

Client Project	Burns & McDonnell Pitney Court	Preparation Method	EPA 3570
		Cleanup Method(s)	NA
		Analysis Method	EPA 8270M
Lab ID	BR060707-04		
File ID	E071111 D	Matrix	Soil
		Preservation	None
Date Sampled:	7/5/2006	Decanted:	None
Date Received:	7/7/2006		
Date Prepared:	7/7/2006	Sample Size (g):	1.13
Date Cleanup:	NA	Percent Solid:	40%
Date Analyzed:	7/12/2006	Extract Volume ( $\mu$ l):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume ( $\mu$ l)	1.00
Batch QC	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS.				
Benzene	1.24	0.550	0.275	
Toluene	4.77	0.550	0.275	
Ethylbenzene	0.622	0.110	0.055	
m/p-Xylenes	5.53	0.110	0.055	
Styrene	0.271 B	0.110	0.055	
o-Xylene	0.520	0.110	0.055	
Isopropylbenzene	0.164	0.110	0.055	
n-Propylbenzene	0.735	0.110	0.055	
1,3,5-Trimethylbenzene	0.939	0.110	0.055	
1,2,4-Trimethylbenzene	2.62	0.110	0.055	
t-Butylbenzene	0.368	0.110	0.055	
sec-Butylbenzene	0.497	0.110	0.055	
p-Isopropyltoluene	3.64	0.110	0.055	
n-Butylbenzene	2.65	0.110	0.055	
C1 - Benzene	2.94	0.550	0.275	
C2 - Benzene	3.01	0.110	0.055	
C3 - Benzene	3.49	0.110	0.055	
C4 - Benzene	9.56	0.110	0.055	
C5 - Benzene	11.4	0.110	0.055	
trans-Decalin	10.5	0.110	0.055	
cis-Decalin	0.632	0.110	0.055	
Naphthalene	2.6 B	0.110	0.055	
2-Methylnaphthalene	10.5 B	0.110	0.055	
1-Methylnaphthalene	6.13	0.110	0.055	
C1 - Naphthalene	6.55 B	0.110	0.055	
C2 - Naphthalene	36.2	0.110	0.055	
C3- Naphthalene	42.8	0.110	0.055	
C4- Naphthalene	27.8	0.110	0.055	
Acenaphthylene	1.38	0.110	0.055	
Acenaphthene	1.41	0.110	0.055	
Dibenzofuran	1.8	0.110	0.055	
Fluorene	2.93	0.110	0.055	
C1 - Fluorene	6.02	0.110	0.055	
C2 - Fluorene	9.81	0.110	0.055	
C3 - Fluorene	8.93	0.110	0.055	
Phenanthrene	16.0 B	0.110	0.055	
Anthracene	3.31	0.110	0.055	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-047-001 (5'-6')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060707-04	Matrix:	Soil
File ID:	E071111.D	Preservation:	None
Date Sampled:	7/5/2006	Decanted:	None
Date Received	7/7/2006	Sample Size (g):	1.13
Date Prepared:	7/7/2006	Percent Solid:	40%
Date Cleanup	NA	Extract Volume (µl)	5000
Date Analyzed	7/12/2006	Prep DF:	1.00
Instrument:	EI Camino	Analysis DF:	1.00
Operator:	JAR	Injection Volume (µl):	1.00
Batch QC:	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	20.6	0.110	0.055	
C2 - Phenanthrene/Anthracene	21.7	0.110	0.055	
C3 - Phenanthrene/Anthracene	12.6	0.110	0.055	
C4 - Phenanthrene/Anthracene	5.74	0.110	0.055	
Dibenzothiophene	3.48	0.110	0.055	
C1 - Dibenzothiophene	10.0	0.110	0.055	
C2 - Dibenzothiophene	13.9	0.110	0.055	
C3 - Dibenzothiophene	11.6	0.110	0.055	
C4 - Dibenzothiophene	6.29	0.110	0.055	
Benzo(b)naphtho(2,1-d)thiophene	1.83	0.110	0.055	
Fluoranthene	16.7	0.110	0.055	
Pyrene	15.3	0.110	0.055	
C1 - Fluoranthene/Pyrene	10.5	0.110	0.055	
C2 - Fluoranthene/Pyrene	6.86	0.110	0.055	
C3 - Fluoranthene/Pyrene	4.18	0.110	0.055	
Benz[a]anthracene	6.16	0.110	0.055	
Chrysene*	8.07	0.110	0.055	
C1 - Benz(a)anthracene/Chrysene	4.52	0.110	0.055	
C2 - Benz(a)anthracene/Chrysene	3.6	0.110	0.055	
C3 - Benz(a)anthracene/Chrysene	2.46	0.110	0.055	
C4 - Benz(a)anthracene/Chrysene	1.62	0.110	0.055	
Benzo[b]fluoranthene	6.01	0.110	0.055	
Benzo[j/k]fluoranthene	5.26	0.110	0.055	
Benzo(e)pyrene	5.01	0.110	0.055	
Benzo[a]pyrene	5.74	0.110	0.055	
Perylene	1.26	0.110	0.055	
Indeno[1,2,3-cd]pyrene	4.13	0.110	0.055	
Dibenz[a,h]anthracene	0.971	0.110	0.055	
Benzo[g,h,i]perylene	3.87	0.110	0.055	
Coronene	0.958	0.110	0.055	
Retene	7.58	0.110	0.055	
Benzo(b/c)fluorenes	1.85	0.110	0.055	
2-Methylpyrene	1.54	0.110	0.055	
4-Methylpyrene	1.56	0.110	0.055	
1-Methylpyrene	1.15	0.110	0.055	
Heptadecane	16.1	0.110	0.055	
Pristane	95.0	0.110	0.055	
Octadecane	9.7	0.110	0.055	
Phytane	59.1	0.110	0.055	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-047-001 (5'-6')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060707-04		
File ID:	E071111.D	Matrix:	Soil
Date Sampled:	7/5/2006	Preservation:	None
Date Received:	7/7/2006	Decanted:	None
Date Prepared:	7/7/2006	Sample Size (g):	1.13
Date Cleanup:	NA	Percent Solid	40%
Date Analyzed:	7/12/2006	Extract Volume (µl)	5000
Instrument	EI Camino	Prep DF	1.00
Operator	JAR	Analysis DF	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	35.3	0.110	0.055	
2,6,10-trimethyltridecane	63.1	0.110	0.055	
Norpristane	44.4	0.110	0.055	
Total PAH (16)	99.8	0.110	0.055	
Total PAH (42)	386	0.110	0.055	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	71	Limits
Phenanthrene-d10	87	50 - 120
Perylene-d12	95	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range

I - Concentration/Peak ID uncertain due to potential interference

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

\* - Triphenylene is known to coelute with this compound

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-048-001 (5'-6')

Client Project	Burns & McDonnell Pitney Court	Preparation Method: Cleanup Method(s): Analysis Method:	EPA 3570 NA EPA 8270M
Lab ID	BR060707-05		
File ID	E071112 D	Matrix Preservation: Decanted:	Soil None None
Date Sampled:	7/6/2006	Sample Size (g):	1.23
Date Received:	7/7/2006	Percent Solid:	40%
Date Prepared:	7/7/2006	Extract Volume (µl):	5000
Date Cleanup:	NA	Prep DF:	1.00
Date Analyzed:	7/12/2006	Analysis DF:	1.00
Instrument Operator:	EI Camino JAR	Injection Volume (µl)	1.00
Batch QC	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
<b>MAH &amp; PAH COMPOUNDS:</b>				
Benzene	1.69	0.505	0.252	
Toluene	6.51	0.505	0.252	
Ethylbenzene	1.1	0.101	0.051	
m/p-Xylenes	8.23	0.101	0.051	
Styrene	0.367 B	0.101	0.051	
o-Xylene	0.918	0.101	0.051	
Isopropylbenzene	0.205	0.101	0.051	
n-Propylbenzene	1.23	0.101	0.051	
1,3,5-Trimethylbenzene	1.16	0.101	0.051	
1,2,4-Trimethylbenzene	3.35	0.101	0.051	
t-Butylbenzene	U	0.101	0.051	
sec-Butylbenzene	0.672	0.101	0.051	
p-Isopropyltoluene	6.03	0.101	0.051	
n-Butylbenzene	4.26	0.101	0.051	
C1 - Benzene	4.03	0.505	0.252	
C2 - Benzene	4.64	0.101	0.051	
C3 - Benzene	4.7	0.101	0.051	
C4 - Benzene	12.4	0.101	0.051	
C5 - Benzene	17.7	0.101	0.051	
trans-Decalin	11.8	0.101	0.051	
cis-Decalin	0.785	0.101	0.051	
Naphthalene	3.7 B	0.101	0.051	
2-Methylnaphthalene	18.3 B	0.101	0.051	
1-Methylnaphthalene	9.99	0.101	0.051	
C1 - Naphthalene	17.5 B	0.101	0.051	
C2 - Naphthalene	69.6	0.101	0.051	
C3 - Naphthalene	85.4	0.101	0.051	
C4 - Naphthalene	53.0	0.101	0.051	
Acenaphthylene	1.92	0.101	0.051	
Acenaphthene	1.79	0.101	0.051	
Dibenzofuran	3.27	0.101	0.051	
Fluorene	4.66	0.101	0.051	
C1 - Fluorene	9.53	0.101	0.051	
C2 - Fluorene	14.0	0.101	0.051	
C3 - Fluorene	12.0	0.101	0.051	
Phenanthrene	22.8 B	0.101	0.051	
Anthracene	4.75	0.101	0.051	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-048-001 (5'-6')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060707-05		
File ID:	E071112.D	Matrix:	Soil
Date Sampled:	7/6/2006	Preservation:	None
Date Received:	7/7/2006	Decanted:	None
Date Prepared	7/7/2006	Sample Size (g)	1.23
Date Cleanup	NA	Percent Solid	40%
Date Analyzed:	7/12/2006	Extract Volume (µl)	5000
Instrument	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	26.9	0.101	0.051	
C2 - Phenanthrene/Anthracene	25.7	0.101	0.051	
C3 - Phenanthrene/Anthracene	14.2	0.101	0.051	
C4 - Phenanthrene/Anthracene	7.78	0.101	0.051	
Dibenzothiophene	5.48	0.101	0.051	
C1 - Dibenzothiophene	13.8	0.101	0.051	
C2 - Dibenzothiophene	18.2	0.101	0.051	
C3 - Dibenzothiophene	13.7	0.101	0.051	
C4 - Dibenzothiophene	7.02	0.101	0.051	
Benzo(b)naphtho(2,1-d)thiophene	2.58	0.101	0.051	
Fluoranthene	24.9	0.101	0.051	
Pyrene	21.9	0.101	0.051	
C1 - Fluoranthene/Pyrene	14.6	0.101	0.051	
C2 - Fluoranthene/Pyrene	8.43	0.101	0.051	
C3 - Fluoranthene/Pyrene	4.62	0.101	0.051	
Benz(a)anthracene	9.49	0.101	0.051	
Chrysene*	12.5	0.101	0.051	
C1 - Benz(a)anthracene/Chrysene	6.17	0.101	0.051	
C2 - Benz(a)anthracene/Chrysene	4.47	0.101	0.051	
C3 - Benz(a)anthracene/Chrysene	2.75	0.101	0.051	
C4 - Benz(a)anthracene/Chrysene	1.85	0.101	0.051	
Benzo[b]fluoranthene	9.54	0.101	0.051	
Benzo[j/k]fluoranthene	8.59	0.101	0.051	
Benzo(e)pyrene	7.65	0.101	0.051	
Benzo[a]pyrene	9.07	0.101	0.051	
Perylene	2.01	0.101	0.051	
Indeno[1,2,3-cd]pyrene	6.52	0.101	0.051	
Dibenzo[a,h]anthracene	1.49	0.101	0.051	
Benzo[g,h,i]perylene	5.92	0.101	0.051	
Coronene	1.37	0.101	0.051	
Retene	14.5	0.101	0.051	
Benzo(b/c)fluorenes	2.8	0.101	0.051	
2-Methylpyrene	1.99	0.101	0.051	
4-Methylpyrene	1.92	0.101	0.051	
1-Methylpyrene	1.44	0.101	0.051	
Heptadecane	21.4	0.101	0.051	
Pristane	198	0.101	0.051	
Octadecane	11.1	0.101	0.051	
Phytane	124	0.101	0.051	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-048-001 (5'-6')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060707-05	Matrix	Soil
File ID	E071112.D	Preservation:	None
Date Sampled	7/6/2006	Decanted:	None
Date Received	7/7/2006	Sample Size (g)	1.23
Date Prepared	7/7/2006	Percent Solid:	40%
Date Cleanup:	NA	Extract Volume ( $\mu$ l):	5000
Date Analyzed:	7/12/2006	Prep DF:	1.00
Instrument:	EI Camino	Analysis DF:	1.00
Operator:	JAR	Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	78.1	0.101	0.051	
2,6,10-trimethyltridecane	142	0.101	0.051	
Norpristane	104	0.101	0.051	
Total PAH (16)	150	0.101	0.051	
Total PAH (42)	599	0.101	0.051	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	57	Limits 50 - 120
Phenanthrene-d10	74	50 - 120
Perylene-d12	78	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL

D - Analyte reported from a diluted extract

E - Estimate, result detected above calibration range

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

\* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** **PCS-RSB-048-002 (8'-9')**

Client Project:	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060707-06-D	Matrix	Soil
File ID	E071113 D	Preservation:	None
Date Sampled:	7/6/2006	Decanted:	None
Date Received:	7/7/2006		
Date Prepared:	7/7/2006	Sample Size (g):	1.18
Date Cleanup:	NA	Percent Solid:	72%
Date Analyzed:	7/12/2006	Extract Volume ( $\mu$ l):	10000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS:				
Benzene	14.6	11.8	5.9	
Toluene	13.8	11.8	5.9	
Ethylbenzene	337	2.36	1.18	
m/p-Xylenes	158	2.36	1.18	
Styrene	19.5 B	2.36	1.18	
o-Xylene	112	2.36	1.18	
Isopropylbenzene	65.7	2.36	1.18	
n-Propylbenzene	22.2	2.36	1.18	
1,3,5-Trimethylbenzene	72.4	2.36	1.18	
1,2,4-Trimethylbenzene	291	2.36	1.18	
t-Butylbenzene	U	2.36	1.18	
sec-Butylbenzene	2.25 J	2.36	1.18	
p-Isopropyltoluene	61.2	2.36	1.18	
n-Butylbenzene	60.6	2.36	1.18	
C1 - Benzene	8.38 J	11.8	5.9	
C2 - Benzene	246	2.36	1.18	
C3 - Benzene	388	2.36	1.18	
C4 - Benzene	452	2.36	1.18	
C5 - Benzene	149	2.36	1.18	
trans-Decalin	4.23	2.36	1.18	
cis-Decalin	U	2.36	1.18	
Naphthalene	5.520 B	2.36	1.18	
2-Methylnaphthalene	4.950 B	2.36	1.18	
1-Methylnaphthalene	3.510	2.36	1.18	
C1 - Naphthalene	5.210 B	2.36	1.18	
C2 - Naphthalene	3.830	2.36	1.18	
C3- Naphthalene	1.450	2.36	1.18	
C4- Naphthalene	400	2.36	1.18	
Acenaphthylene	379	2.36	1.18	
Acenaphthene	2,780	2.36	1.18	
Dibenzofuran	121	2.36	1.18	
Fluorene	1,210	2.36	1.18	
C1 - Fluorene	1,000	2.36	1.18	
C2 - Fluorene	708	2.36	1.18	
C3 - Fluorene	254	2.36	1.18	
Phenanthrene	3,430 B	2.36	1.18	
Anthracene	1,340	2.36	1.18	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID:** **PCS-RSB-048-002 (8'-9')**

Client Project:	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s)	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060707-06-D	Matrix:	Soil
File ID:	E071113.D	Preservation:	None
Date Sampled:	7/6/2006	Decanted:	None
Date Received:	7/7/2006	Sample Size (g):	1.18
Date Prepared:	7/7/2006	Percent Solid:	72%
Date Cleanup:	NA	Extract Volume (µl):	10000
Date Analyzed:	7/12/2006	Prep DF:	1.00
Instrument:	EI Camino	Analysis DF:	20.00
Operator:	JAR	Injection Volume (µl):	1.00
Batch QC:	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	3,270	2.36	1.18	
C2 - Phenanthrene/Anthracene	1,520	2.36	1.18	
C3 - Phenanthrene/Anthracene	471	2.36	1.18	
C4 - Phenanthrene/Anthracene	117	2.36	1.18	
Dibenzothiophene	406	2.36	1.18	
C1 - Dibenzothiophene	608	2.36	1.18	
C2 - Dibenzothiophene	472	2.36	1.18	
C3 - Dibenzothiophene	219	2.36	1.18	
C4 - Dibenzothiophene	62.9	2.36	1.18	
Benzo(b)naphtho(2,1-d)thiophene	161	2.36	1.18	
Fluoranthene	1,010	2.36	1.18	
Pyrene	1,510	2.36	1.18	
C1 - Fluoranthene/Pyrene	2,190	2.36	1.18	
C2 - Fluoranthene/Pyrene	879	2.36	1.18	
C3 - Fluoranthene/Pyrene	299	2.36	1.18	
Benz[a]anthracene	690	2.36	1.18	
Chrysene*	704	2.36	1.18	
C1 - Benz(a)anthracene/Chrysene	762	2.36	1.18	
C2 - Benz(a)anthracene/Chrysene	354	2.36	1.18	
C3 - Benz(a)anthracene/Chrysene	130	2.36	1.18	
C4 - Benz(a)anthracene/Chrysene	51.4	2.36	1.18	
Benzo[b]fluoranthene	209	2.36	1.18	
Benzo[j/k]fluoranthene	272	2.36	1.18	
Benzo(e)pyrene	251	2.36	1.18	
Benzo[a]pyrene	484	2.36	1.18	
Perylene	70.9	2.36	1.18	
Indeno[1,2,3-cd]pyrene	148	2.36	1.18	
Dibenz[a,h]anthracene	58.9	2.36	1.18	
Benzo[g,h,i]perylene	144	2.36	1.18	
Coronene	28.4	2.36	1.18	
Retene	56.2	2.36	1.18	
Benzo(b/c)fluorenes	283	2.36	1.18	
2-Methylpyrene	260	2.36	1.18	
4-Methylpyrene	270	2.36	1.18	
1-Methylpyrene	344	2.36	1.18	
Heptadecane	U	2.36	1.18	
Pristane	98.3	2.36	1.18	
Octadecane	U	2.36	1.18	
Phytane	67.5	2.36	1.18	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-048-002 (8'-9')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID:	BR060707-06-D	Matrix:	Soil
File ID:	E071113.D	Preservation:	None
Date Sampled:	7/6/2006	Decanted:	None
Date Received:	7/7/2006		
Date Prepared:	7/7/2006	Sample Size (g):	1.18
Date Cleanup:	NA	Percent Solid:	72%
Date Analyzed:	7/12/2006	Extract Volume ( $\mu$ l):	10000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060707-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	39.2	2.36	1.18	
2,6,10-trimethyltridecane	63.2	2.36	1.18	
Norpristane	60.4	2.36	1.18	
Total PAH (16)	19,900	2.36	1.18	
Total PAH (42)	45,000	2.36	1.18	

*Extraction Surrogate Recoveries (%)*

		Limits
Toluene-d8	74	50 - 120
Phenanthrene-d10	84	50 - 120
Perylene-d12	522	50 - 120

NA - Not applicable

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration

EDL - Estimated detection limit is 50% of RL.

\* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-027B-001 (8.5'-9.5')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060711-01-D	Matrix:	Soil
File ID:	E071418.D	Preservation:	None
Date Sampled:	7/7/2006	Decanted:	None
Date Received:	7/11/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.53
Date Cleanup:	NA	Percent Solid:	63%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS:				
Benzene	7.8	1.04	0.520	
Toluene	3.41	1.04	0.520	
Ethylbenzene	70.1	0.209	0.104	
m/p-Xylenes	45.7	0.209	0.104	
Styrene	2.15	0.209	0.104	
o-Xylene	25.6	0.209	0.104	
Isopropylbenzene	9.26	0.209	0.104	
n-Propylbenzene	3.05	0.209	0.104	
1,3,5-Trimethylbenzene	14.3	0.209	0.104	
1,2,4-Trimethylbenzene	48.7	0.209	0.104	
t-Butylbenzene	U	0.209	0.104	
sec-Butylbenzene	0.362	0.209	0.104	
p-Isopropyltoluene	9.01	0.209	0.104	
n-Butylbenzene	4.37	0.209	0.104	
C1 - Benzene	2.09	1.04	0.520	
C2 - Benzene	59.0	0.209	0.104	
C3 - Benzene	6.34	0.209	0.104	
C4 - Benzene	59.3	0.209	0.104	
C5 - Benzene	19.5	0.209	0.104	
trans-Decalin	3.8	0.209	0.104	
cis-Decalin	0.284	0.209	0.104	
Naphthalene	810 D	0.209	0.104	
2-Methylnaphthalene	618 D	0.209	0.104	
1-Methylnaphthalene	378 D	0.209	0.104	
C1 - Naphthalene	615 D	0.209	0.104	
C2 - Naphthalene	408	0.209	0.104	
C3- Naphthalene	151	0.209	0.104	
C4- Naphthalene	43.1	0.209	0.104	
Acenaphthylene	25.1	0.209	0.104	
Acenaphthene	251	0.209	0.104	
Dibenzofuran	13.0	0.209	0.104	
Fluorene	113	0.209	0.104	
C1 - Fluorene	92.8	0.209	0.104	
C2 - Fluorene	72.4	0.209	0.104	
C3 - Fluorene	27.7	0.209	0.104	
Phenanthrene	330 B	0.209	0.104	
Anthracene	126	0.209	0.104	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-027B-001 (8.5'-9.5')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID:	BR060711-01-D		
File ID:	E071418.D	Matrix:	Soil
Date Sampled:	7/7/2006	Preservation:	None
Date Received:	7/11/2006	Decanted:	None
Date Prepared:	7/13/2006	Sample Size (g):	1.53
Date Cleanup:	NA	Percent Solid:	63%
Date Analyzed:	7/15/2006	Extract Volume (μl):	2000
Instrument	EI Camino	Prep DF	1.00
Operator	JAR	Analysis DF	10.00
		Injection Volume (μl):	1.00
Batch QC	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	321	0.209	0.104	
C2 - Phenanthrene/Anthracene	148	0.209	0.104	
C3 - Phenanthrene/Anthracene	45.7	0.209	0.104	
C4 - Phenanthrene/Anthracene	15.0	0.209	0.104	
Dibenzothiophene	35.5	0.209	0.104	
C1 - Dibenzothiophene	55.9	0.209	0.104	
C2 - Dibenzothiophene	45.3	0.209	0.104	
C3 - Dibenzothiophene	22.1	0.209	0.104	
C4 - Dibenzothiophene	7.17	0.209	0.104	
Benzo(b)naphtho(2,1-d)thiophene	13.0	0.209	0.104	
Fluoranthene	91.8	0.209	0.104	
Pyrene	149	0.209	0.104	
C1 - Fluoranthene/Pyrene	202	0.209	0.104	
C2 - Fluoranthene/Pyrene	82.5	0.209	0.104	
C3 - Fluoranthene/Pyrene	27.3	0.209	0.104	
Benz[a]anthracene	64.6	0.209	0.104	
Chrysene*	66.8	0.209	0.104	
C1 - Benz(a)anthracene/Chrysene	69.0	0.209	0.104	
C2 - Benz(a)anthracene/Chrysene	30.6	0.209	0.104	
C3 - Benz(a)anthracene/Chrysene	10.0	0.209	0.104	
C4 - Benz(a)anthracene/Chrysene	3.98	0.209	0.104	
Benzo[b]fluoranthene	19.7	0.209	0.104	
Benzo[j/k]fluoranthene	24.0	0.209	0.104	
Benzo(e)pyrene	24.7	0.209	0.104	
Benzo[a]pyrene	43.1	0.209	0.104	
Perylene	6.15	0.209	0.104	
Indeno[1,2,3-cd]pyrene	13.4	0.209	0.104	
Dibenzo[a,h]anthracene	5.02	0.209	0.104	
Benzof[g,h,i]perylene	13.2	0.209	0.104	
Coronene	2.41	0.209	0.104	
Retene	22.3	0.209	0.104	
Benzo(b/c)fluorenes	25.2	0.209	0.104	
2-Methylpyrene	27.5	0.209	0.104	
4-Methylpyrene	27.3	0.209	0.104	
1-Methylpyrene	30.3	0.209	0.104	
Heptadecane	3.78	0.209	0.104	
Pristane	31.7	0.209	0.104	
Octadecane	2.16	0.209	0.104	
Phytane	21.4	0.209	0.104	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-027B-001 (8.5'-9.5')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060711-01-D	Matrix:	Soil
File ID.	E071418.D	Preservation:	None
Date Sampled:	7/7/2006	Decanted:	None
Date Received:	7/11/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.53
Date Cleanup	NA	Percent Solid	63%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l)	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	13.3	0.209	0.104	
2,6,10-trimethyltridecane	20.3	0.209	0.104	
Norpristane	16.9	0.209	0.104	
Total PAH (16)	U	0.209	0.104	
Total PAH (42)	U	0.209	0.104	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	61	Limits
Phenanthrene-d10	71	50 - 120
Perylene-d12	116	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract

E - Estimate, result detected above calibration range

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

\* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-037B-001 (5.0'-6.0')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID:	BR060711-02-D		
File ID:	E071420.D	Matrix:	Soil
Date Sampled:	7/7/2006	Preservation:	None
Date Received:	7/11/2006	Decanted	None
Date Prepared:	7/13/2006	Sample Size (g):	1.55
Date Cleanup:	NA	Percent Solid:	58%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS				
Benzene	2.14	1.11	0.555	
Toluene	1.36	1.11	0.555	
Ethylbenzene	6.84	0.222	0.111	
m/p-Xylenes	3.13	0.222	0.111	
Styrene	15.2	0.222	0.111	
o-Xylene	2.06	0.222	0.111	
Isopropylbenzene	1.95	0.222	0.111	
n-Propylbenzene	0.570	0.222	0.111	
1,3,5-Trimethylbenzene	0.950	0.222	0.111	
1,2,4-Trimethylbenzene	2.74	0.222	0.111	
t-Butylbenzene	U	0.222	0.111	
sec-Butylbenzene	0.246	0.222	0.111	
p-Isopropyltoluene	1.31	0.222	0.111	
n-Butylbenzene	1.21	0.222	0.111	
C1 - Benzene	0.828 J	1.11	0.555	
C2 - Benzene	4.93	0.222	0.111	
C3 - Benzene	5.33	0.222	0.111	
C4 - Benzene	6.29	0.222	0.111	
C5 - Benzene	3.47	0.222	0.111	
trans-Decalin	2.6	0.222	0.111	
cis-Decalin	0.174 J	0.222	0.111	
Naphthalene	66.7	0.222	0.111	
2-Methylnaphthalene	40.5	0.222	0.111	
1-Methylnaphthalene	28.8	0.222	0.111	
C1 - Naphthalene	42.7	0.222	0.111	
C2 - Naphthalene	25.4	0.222	0.111	
C3 - Naphthalene	14.2	0.222	0.111	
C4 - Naphthalene	7.16	0.222	0.111	
Acenaphthylene	2.16	0.222	0.111	
Acenaphthene	25.0	0.222	0.111	
Dibenzofuran	5.39	0.222	0.111	
Fluorene	15.7	0.222	0.111	
C1 - Fluorene	7.97	0.222	0.111	
C2 - Fluorene	7.26	0.222	0.111	
C3 - Fluorene	4.49	0.222	0.111	
Phenanthrene	91.2 B	0.222	0.111	
Anthracene	34.6	0.222	0.111	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-037B-001 (5.0'-6.0')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060711-02-D	Matrix	Soil
File ID:	E071420.D	Preservation	None
Date Sampled:	7/7/2006	Decanted:	None
Date Received:	7/11/2006	Sample Size (g):	1.55
Date Prepared:	7/13/2006	Percent Solid:	58%
Date Cleanup:	NA	Extract Volume ( $\mu$ l):	2000
Date Analyzed:	7/15/2006	Prep DF:	1.00
Instrument:	EI Camino	Analysis DF:	10.00
Operator:	JAR	Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	45.4	0.222	0.111	
C2 - Phenanthrene/Anthracene	22.8	0.222	0.111	
C3 - Phenanthrene/Anthracene	12.4	0.222	0.111	
C4 - Phenanthrene/Anthracene	14.7	0.222	0.111	
Dibenzothiophene	6.15	0.222	0.111	
C1 - Dibenzothiophene	7.4	0.222	0.111	
C2 - Dibenzothiophene	7.25	0.222	0.111	
C3 - Dibenzothiophene	4.69	0.222	0.111	
C4 - Dibenzothiophene	2.1	0.222	0.111	
Benzo(b)naphtho(2,1-d)thiophene	4.07	0.222	0.111	
Fluoranthene	83.6	0.222	0.111	
Pyrene	80.5	0.222	0.111	
C1 - Fluoranthene/Pyrene	46.1	0.222	0.111	
C2 - Fluoranthene/Pyrene	15.0	0.222	0.111	
C3 - Fluoranthene/Pyrene	5.73	0.222	0.111	
Benz[a]anthracene	38.9	0.222	0.111	
Chrysene*	37.0	0.222	0.111	
C1 - Benz(a)anthracene/Chrysene	16.7	0.222	0.111	
C2 - Benz(a)anthracene/Chrysene	7.06	0.222	0.111	
C3 - Benz(a)anthracene/Chrysene	3.05	0.222	0.111	
C4 - Benz(a)anthracene/Chrysene	1.37	0.222	0.111	
Benzo[b]fluoranthene	24.3	0.222	0.111	
Benzo[j/k]fluoranthene	25.6	0.222	0.111	
Benzo(e)pyrene	20.6	0.222	0.111	
Benzo[a]pyrene	35.0	0.222	0.111	
Perylene	7.34	0.222	0.111	
Indeno[1,2,3-cd]pyrene	17.6	0.222	0.111	
Dibenz[a,h]anthracene	3.96	0.222	0.111	
Benzo[g,h,i]perylene	16.1	0.222	0.111	
Coronene	3.42	0.222	0.111	
Retene	57.3	0.222	0.111	
Benzo(b/c)fluorenes	9.38	0.222	0.111	
2-Methylpyrene	5.4	0.222	0.111	
4-Methylpyrene	4.66	0.222	0.111	
1-Methylpyrene	4.49	0.222	0.111	
Heptadecane	3.69	0.222	0.111	
Pristane	13.0	0.222	0.111	
Octadecane	1.83	0.222	0.111	
Phytane	8.74	0.222	0.111	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-037B-001 (5.0'-6.0')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060711-02-D	Matrix:	Soil
File ID:	E071420.D	Preservation:	None
Date Sampled:	7/7/2006	Decanted:	None
Date Received:	7/11/2006		
Date Prepared	7/13/2006	Sample Size (g):	1.55
Date Cleanup	NA	Percent Solid:	58%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	5.08	0.222	0.111	
2,6,10-trimethyltridecane	7.52	0.222	0.111	
Norpristane	5.7	0.222	0.111	
Total PAH (16)	598	0.222	0.111	
Total PAH (42)	958	0.222	0.111	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	65	Limits
Phenanthrene-d10	75	50 - 120
Perylene-d12	105	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

\* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** **PCS-RSB-050-001 (7'-8')**

Client:	Burns & McDonnell	Preparation Method	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-01-D	Matrix	Soil
File ID:	E071421 D	Preservation:	None
Date Sampled:	7/12/2006	Decanted:	None
Date Received:	7/13/2006	Sample Size (g):	1.56
Date Prepared:	7/13/2006	Percent Solid:	47%
Date Cleanup:	NA	Extract Volume ( $\mu$ l):	2000
Date Analyzed:	7/15/2006	Prep DF:	1.00
Instrument:	EI Camino	Analysis DF:	10.00
Operator:	JAR	Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS:				
Benzene	0.788 J	1.37	0.685	
Toluene	3.38	1.37	0.685	
Ethylbenzene	0.551	0.274	0.137	
m/p-Xylenes	4.63	0.274	0.137	
Styrene	0.452	0.274	0.137	
o-Xylene	1.05	0.274	0.137	
Isopropylbenzene	0.177 J	0.274	0.137	
n-Propylbenzene	0.621	0.274	0.137	
1,3,5-Trimethylbenzene	0.968	0.274	0.137	
1,2,4-Trimethylbenzene	2.27	0.274	0.137	
t-Butylbenzene	U	0.274	0.137	
sec-Butylbenzene	0.485	0.274	0.137	
p-Isopropyltoluene	2.38	0.274	0.137	
n-Butylbenzene	2.28	0.274	0.137	
C1 - Benzene	2.09	1.37	0.685	
C2 - Benzene	2.86	0.274	0.137	
C3 - Benzene	3.25	0.274	0.137	
C4 - Benzene	8.85	0.274	0.137	
C5 - Benzene	13.5	0.274	0.137	
trans-Decalin	10.6	0.274	0.137	
cis-Decalin	0.729	0.274	0.137	
Naphthalene	3.37	0.274	0.137	
2-Methylnaphthalene	13.1	0.274	0.137	
1-Methylnaphthalene	8.61	0.274	0.137	
C1 - Naphthalene	13.4	0.274	0.137	
C2 - Naphthalene	60.0	0.274	0.137	
C3- Naphthalene	91.8	0.274	0.137	
C4- Naphthalene	67.3	0.274	0.137	
Acenaphthylene	3.49	0.274	0.137	
Acenaphthene	3.58	0.274	0.137	
Dibenzofuran	3.62	0.274	0.137	
Fluorene	6.57	0.274	0.137	
C1 - Fluorene	14.2	0.274	0.137	
C2 - Fluorene	24.2	0.274	0.137	
C3 - Fluorene	18.6	0.274	0.137	
Phenanthrene	40.7 B	0.274	0.137	
Anthracene	9.64	0.274	0.137	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-050-001 (7'-8')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-01-D	Matrix:	Soil
File ID	E071421 D	Preservation:	None
Date Sampled:	7/12/2006	Decanted:	None
Date Received:	7/13/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.56
Date Cleanup:	NA	Percent Solid:	47%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator	JAR	Analysis DF:	10.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	47.2	0.274	0.137	
C2 - Phenanthrene/Anthracene	42.0	0.274	0.137	
C3 - Phenanthrene/Anthracene	20.5	0.274	0.137	
C4 - Phenanthrene/Anthracene	9.86	0.274	0.137	
Dibenzothiophene	7.51	0.274	0.137	
C1 - Dibenzothiophene	19.9	0.274	0.137	
C2 - Dibenzothiophene	24.6	0.274	0.137	
C3 - Dibenzothiophene	17.3	0.274	0.137	
C4 - Dibenzothiophene	7.9	0.274	0.137	
Benzo(b)naphtho(2,1-d)thiophene	3.34	0.274	0.137	
Fluoranthene	39.8	0.274	0.137	
Pyrene	35.7	0.274	0.137	
C1 - Fluoranthene/Pyrene	21.0	0.274	0.137	
C2 - Fluoranthene/Pyrene	12.0	0.274	0.137	
C3 - Fluoranthene/Pyrene	6.07	0.274	0.137	
Benz[a]anthracene	16.2	0.274	0.137	
Chrysene*	18.3	0.274	0.137	
C1 - Benz(a)anthracene/Chrysene	8.89	0.274	0.137	
C2 - Benz(a)anthracene/Chrysene	5.56	0.274	0.137	
C3 - Benz(a)anthracene/Chrysene	3.37	0.274	0.137	
C4 - Benz(a)anthracene/Chrysene	2.02	0.274	0.137	
Benzo[b]fluoranthene	13.3	0.274	0.137	
Benzo[j,k]fluoranthene	12.3	0.274	0.137	
Benzo(e)pyrene	11.0	0.274	0.137	
Benzo[a]pyrene	14.5	0.274	0.137	
Perylene	2.9	0.274	0.137	
Indeno[1,2,3-cd]pyrene	8.8	0.274	0.137	
Dibenz[a,h]anthracene	2.11	0.274	0.137	
Benzo[g,h,i]perylene	7.99	0.274	0.137	
Coronene	1.68	0.274	0.137	
Retene	19.1	0.274	0.137	
Benzo(b/c)fluorenes	3.71	0.274	0.137	
2-Methylpyrene	2.98	0.274	0.137	
4-Methylpyrene	2.7	0.274	0.137	
1-Methylpyrene	2.18	0.274	0.137	
Heptadecane	U	0.274	0.137	
Pristane	200	0.274	0.137	
Octadecane	U	0.274	0.137	
Phytane	130	0.274	0.137	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID:** **PCS-RSB-050-001 (7'-8')**

Client Project	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s)	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-01-D	Matrix:	Soil
File ID:	E071421.D	Preservation:	None
Date Sampled:	7/12/2006	Decanted:	None
Date Received:	7/13/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.56
Date Cleanup:	NA	Percent Solid:	47%
Date Analyzed	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument Operator	EI Camino JAR	Prep DF:	1.00
		Analysis DF:	10.00
		Injection Volume ( $\mu$ l)	1.00
Batch QC	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	70.2	0.274	0.137	
2,6,10-trimethyltridecane	124	0.274	0.137	
Norpristane	102	0.274	0.137	
Total PAH (16)	236	0.274	0.137	
Total PAH (42)	799	0.274	0.137	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	67	Limits 50 - 120
Phenanthrene-d10	78	50 - 120
Perylene-d12	106	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration

EDL - Estimated detection limit is 50% of RL

\* - Triphenylene is known to coelute with this compound

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-007B-001 (0'-2')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-02-D	Matrix:	Soil
File ID:	E071422.D	Preservation:	None
Date Sampled:	7/12/2006	Decanted:	None
Date Received	7/13/2006		
Date Prepared	7/13/2006	Sample Size (g)	1.60
Date Cleanup:	NA	Percent Solid:	41%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS.				
Benzene	1.05 J	1.53	0.765	
Toluene	4.35	1.53	0.765	
Ethylbenzene	2.16	0.305	0.152	
m/p-Xylenes	6.16	0.305	0.152	
Styrene	0.711	0.305	0.152	
o-Xylene	1.1	0.305	0.152	
Isopropylbenzene	0.682	0.305	0.152	
n-Propylbenzene	0.931	0.305	0.152	
1,3,5-Trimethylbenzene	1.49	0.305	0.152	
1,2,4-Trimethylbenzene	6.49	0.305	0.152	
t-Butylbenzene	U	0.305	0.152	
sec-Butylbenzene	0.658	0.305	0.152	
p-Isopropyltoluene	2.55	0.305	0.152	
n-Butylbenzene	2.83	0.305	0.152	
C1 - Benzene	2.69	1.53	0.765	
C2 - Benzene	4.19	0.305	0.152	
C3 - Benzene	7.48	0.305	0.152	
C4 - Benzene	17.8	0.305	0.152	
C5 - Benzene	16.3	0.305	0.152	
trans-Decalin	8.39	0.305	0.152	
cis-Decalin	0.800	0.305	0.152	
Naphthalene	78.8	0.305	0.152	
2-Methylnaphthalene	95.2	0.305	0.152	
1-Methylnaphthalene	61.0	0.305	0.152	
C1 - Naphthalene	96.3	0.305	0.152	
C2 - Naphthalene	103	0.305	0.152	
C3 - Naphthalene	74.1	0.305	0.152	
C4 - Naphthalene	42.0	0.305	0.152	
Acenaphthylene	4.75	0.305	0.152	
Acenaphthene	38.3	0.305	0.152	
Dibenzofuran	3.1	0.305	0.152	
Fluorene	18.4	0.305	0.152	
C1 - Fluorene	22.3	0.305	0.152	
C2 - Fluorene	25.7	0.305	0.152	
C3 - Fluorene	16.8	0.305	0.152	
Phenanthrene	67.0 B	0.305	0.152	
Anthracene	19.8	0.305	0.152	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-007B-001 (0'-2')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project	Pitney Court	Cleanup Method(s):	NA
		Analysis Method	EPA 8270M
Lab ID	BR060713-02-D	Matrix:	Soil
File ID:	E071422 D	Preservation:	None
Date Sampled:	7/12/2006	Decanted:	None
Date Received:	7/13/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.60
Date Cleanup:	NA	Percent Solid:	41%
Date Analyzed:	7/15/2006	Extract Volume (µl):	2000
Instrument:	EI Camino	Prep DF	1.00
Operator:	JAR	Analysis DF:	10.00
Batch QC:	BR060713-SB	Injection Volume (µl):	1.00

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	70.9	0.305	0.152	
C2 - Phenanthrene/Anthracene	46.2	0.305	0.152	
C3 - Phenanthrene/Anthracene	20.2	0.305	0.152	
C4 - Phenanthrene/Anthracene	6.46	0.305	0.152	
Dibenzothiophene	8.44	0.305	0.152	
C1 - Dibenzothiophene	18.8	0.305	0.152	
C2 - Dibenzothiophene	21.9	0.305	0.152	
C3 - Dibenzothiophene	15.4	0.305	0.152	
C4 - Dibenzothiophene	6.7	0.305	0.152	
Benzo(b)naptho(2,1-d)thiophene	3.58	0.305	0.152	
Fluoranthene	28.0	0.305	0.152	
Pyrene	35.1	0.305	0.152	
C1 - Fluoranthene/Pyrene	38.6	0.305	0.152	
C2 - Fluoranthene/Pyrene	19.5	0.305	0.152	
C3 - Fluoranthene/Pyrene	8.89	0.305	0.152	
Benz[a]anthracene	15.7	0.305	0.152	
Chrysene*	17.7	0.305	0.152	
C1 - Benz(a)anthracene/Chrysene	15.7	0.305	0.152	
C2 - Benz(a)anthracene/Chrysene	8.84	0.305	0.152	
C3 - Benz(a)anthracene/Chrysene	4.58	0.305	0.152	
C4 - Benz(a)anthracene/Chrysene	2.31	0.305	0.152	
Benzo[b]fluoranthene	9.15	0.305	0.152	
Benzo[j/k]fluoranthene	8.7	0.305	0.152	
Benzo(e)pyrene	8.96	0.305	0.152	
Benzo[a]pyrene	12.1	0.305	0.152	
Perylene	2.13	0.305	0.152	
Indeno[1,2,3-cd]pyrene	5.82	0.305	0.152	
Dibenz[a,h]anthracene	1.68	0.305	0.152	
Benzo[g,h,i]perylene	5.96	0.305	0.152	
Coronene	1.35	0.305	0.152	
Retene	2.64	0.305	0.152	
Benzo(b/c)fluorenes	5.07	0.305	0.152	
2-Methylpyrene	5.38	0.305	0.152	
4-Methylpyrene	5.48	0.305	0.152	
1-Methylpyrene	5.56	0.305	0.152	
Heptadecane	U	0.305	0.152	
Pristane	96.4	0.305	0.152	
Octadecane	U	0.305	0.152	
Phytane	65.1	0.305	0.152	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-007B-001 (0'-2')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
Lab ID:	BR060713-02-D	Analysis Method:	EPA 8270M
File ID:	E071422.D	Matrix:	Soil
Date Sampled:	7/12/2006	Preservation:	None
Date Received:	7/13/2006	Decanted:	None
Date Prepared:	7/13/2006	Sample Size (g):	1.60
Date Cleanup:	NA	Percent Solid:	41%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC	BR060713-SB		

Analyte	Concentration (mg/kg dry wt)	RL	EDL	Comments
2,6,10-trimethyldodecane	42.7	0.305	0.152	
2,6,10-trimethyltridecane	59.4	0.305	0.152	
Norpristane	47.4	0.305	0.152	
Total PAH (16)	367	0.305	0.152	
Total PAH (42)	1,070	0.305	0.152	

*Extraction Surrogate Recoveries (%)*

		Limits
Toluene-d8	67	50 - 120
Phenanthrene-d10	78	50 - 120
Perylene-d12	109	50 - 120

NA - Not applicable

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

\* - Triphenylene is known to coelute with this compound

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** **PCS-RSB-008B-001 (7.3'-8')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-03-D	Matrix	Soil
File ID	E071423 D	Preservation:	None
Date Sampled	7/12/2006	Decanted	None
Date Received:	7/13/2006		
Date Prepared	7/13/2006	Sample Size (g):	1.60
Date Cleanup:	NA	Percent Solid:	51%
Date Analyzed:	7/15/2006	Extract Volume (µl):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
<b>MAH &amp; PAH COMPOUNDS</b>				
Benzene	3.82	1.22	0.610	
Toluene	6.01	1.22	0.610	
Ethylbenzene	68.1	0.244	0.122	
m/p-Xylenes	40.1	0.244	0.122	
Styrene	2.56	0.244	0.122	
o-Xylene	24.6	0.244	0.122	
Isopropylbenzene	10.6	0.244	0.122	
n-Propylbenzene	3.66	0.244	0.122	
1,3,5-Trimethylbenzene	15.0	0.244	0.122	
1,2,4-Trimethylbenzene	51.7	0.244	0.122	
t-Butylbenzene	U	0.244	0.122	
sec-Butylbenzene	0.483	0.244	0.122	
p-Isopropyltoluene	9.26	0.244	0.122	
n-Butylbenzene	4.91	0.244	0.122	
C1 - Benzene	3.76	1.22	0.610	
C2 - Benzene	55.3	0.244	0.122	
C3 - Benzene	68.4	0.244	0.122	
C4 - Benzene	65.6	0.244	0.122	
C5 - Benzene	23.6	0.244	0.122	
trans-Decalin	4.14	0.244	0.122	
cis-Decalin	0.303	0.244	0.122	
Naphthalene	849 D	0.244	0.122	
2-Methylnaphthalene	654 D	0.244	0.122	
1-Methylnaphthalene	406 D	0.244	0.122	
C1 - Naphthalene	654 D	0.244	0.122	
C2 - Naphthalene	475	0.244	0.122	
C3- Naphthalene	187	0.244	0.122	
C4- Naphthalene	55.2	0.244	0.122	
Acenaphthylene	30.6	0.244	0.122	
Acenaphthene	283	0.244	0.122	
Dibenzofuran	15.0	0.244	0.122	
Fluorene	129	0.244	0.122	
C1 - Fluorene	114	0.244	0.122	
C2 - Fluorene	93.0	0.244	0.122	
C3 - Fluorene	35.1	0.244	0.122	
Phenanthrene	383 B	0.244	0.122	
Anthracene	146	0.244	0.122	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-008B-001 (7.3'-8')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-03-D	Matrix	Soil
File ID.	E071423.D	Preservation:	None
Date Sampled:	7/12/2006	Decanted:	None
Date Received:	7/13/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.60
Date Cleanup:	NA	Percent Solid:	51%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	386	0.244	0.122	
C2 - Phenanthrene/Anthracene	187	0.244	0.122	
C3 - Phenanthrene/Anthracene	60.2	0.244	0.122	
C4 - Phenanthrene/Anthracene	19.3	0.244	0.122	
Dibenzothiophene	43.6	0.244	0.122	
C1 - Dibenzothiophene	69.7	0.244	0.122	
C2 - Dibenzothiophene	58.0	0.244	0.122	
C3 - Dibenzothiophene	29.4	0.244	0.122	
C4 - Dibenzothiophene	9.71	0.244	0.122	
Benzo(b)naphtho(2,1-d)thiophene	16.9	0.244	0.122	
Fluoranthene	107	0.244	0.122	
Pyrene	174	0.244	0.122	
C1 - Fluoranthene/Pyrene	250	0.244	0.122	
C2 - Fluoranthene/Pyrene	107	0.244	0.122	
C3 - Fluoranthene/Pyrene	38.8	0.244	0.122	
Benz[a]anthracene	76.6	0.244	0.122	
Chrysene*	79.4	0.244	0.122	
C1 - Benz(a)anthracene/Chrysene	89.5	0.244	0.122	
C2 - Benz(a)anthracene/Chrysene	42.1	0.244	0.122	
C3 - Benz(a)anthracene/Chrysene	15.7	0.244	0.122	
C4 - Benz(a)anthracene/Chrysene	5.95	0.244	0.122	
Benzo[b]fluoranthene	23.4	0.244	0.122	
Benzo[j/k]fluoranthene	29.1	0.244	0.122	
Benzo(e)pyrene	30.3	0.244	0.122	
Benzo[a]pyrene	52.4	0.244	0.122	
Perylene	7.5	0.244	0.122	
Indeno[1,2,3-cd]pyrene	15.9	0.244	0.122	
Dibenzo[a,h]anthracene	6.09	0.244	0.122	
Benzo[g,h,i]perylene	15.8	0.244	0.122	
Coronene	2.74	0.244	0.122	
Retene	27.2	0.244	0.122	
Benzo(b/c)fluorenes	29.9	0.244	0.122	
2-Methylpyrene	33.0	0.244	0.122	
4-Methylpyrene	34.2	0.244	0.122	
1-Methylpyrene	38.1	0.244	0.122	
Heptadecane	7.47	0.244	0.122	
Pristane	39.4	0.244	0.122	
Octadecane	3.0	0.244	0.122	
Phytane	26.5	0.244	0.122	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-008B-001 (7.3'-8')

Client Project:	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-03-D	Matrix:	Soil
File ID:	E071423.D	Preservation:	None
Date Sampled:	7/12/2006	Decanted:	None
Date Received:	7/13/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.60
Date Cleanup:	NA	Percent Solid:	51%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator	JAR	Analysis DF	10.00
		Injection Volume ( $\mu$ l)	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	16.0	0.244	0.122	
2,6,10-trimethyltridecane	25.6	0.244	0.122	
Norpristane	20.6	0.244	0.122	
Total PAH (16)	U	0.244	0.122	
Total PAH (42)	U	0.244	0.122	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	65	Limits
Phenanthrene-d10	77	50 - 120
Perylene-d12	124	50 - 120

NA - Not applicable

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

\* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** **PCS-RSB-032-001 (5'-6')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method	EPA 8270M
Lab ID	BR060713-04-D		
File ID:	E071424.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	7/11/2006	Decanted:	None
Date Received:	7/13/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.54
Date Cleanup:	NA	Percent Solid:	45%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument:	EI Camino	Prep DF	1.00
Operator	JAR	Analysis DF:	10.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
<b>MAH &amp; PAH COMPOUNDS:</b>				
Benzene	1.04 J	1.44	0.720	
Toluene	2.98	1.44	0.720	
Ethylbenzene	0.328	0.287	0.144	
m/p-Xylenes	5.82	0.287	0.144	
Styrene	0.359	0.287	0.144	
o-Xylene	0.868	0.287	0.144	
Isopropylbenzene	0.187 J	0.287	0.144	
n-Propylbenzene	0.771	0.287	0.144	
1,3,5-Trimethylbenzene	1.45	0.287	0.144	
1,2,4-Trimethylbenzene	3.95	0.287	0.144	
t-Butylbenzene	0.566	0.287	0.144	
sec-Butylbenzene	0.603	0.287	0.144	
p-Isopropyltoluene	1.85	0.287	0.144	
n-Butylbenzene	2.42	0.287	0.144	
C1 - Benzene	1.88	1.44	0.720	
C2 - Benzene	3.28	0.287	0.144	
C3 - Benzene	4.72	0.287	0.144	
C4 - Benzene	12.3	0.287	0.144	
C5 - Benzene	15.4	0.287	0.144	
trans-Decalin	7.7	0.287	0.144	
cis-Decalin	0.635	0.287	0.144	
Naphthalene	1.22	0.287	0.144	
2-Methylnaphthalene	16.8	0.287	0.144	
1-Methylnaphthalene	10.0	0.287	0.144	
C1 - Naphthalene	16.6	0.287	0.144	
C2 - Naphthalene	59.8	0.287	0.144	
C3- Naphthalene	74.9	0.287	0.144	
C4- Naphthalene	49.6	0.287	0.144	
Acenaphthylene	1.37	0.287	0.144	
Acenaphthene	2.5	0.287	0.144	
Dibenzofuran	1.99	0.287	0.144	
Fluorene	4.62	0.287	0.144	
C1 - Fluorene	12.7	0.287	0.144	
C2 - Fluorene	19.2	0.287	0.144	
C3 - Fluorene	13.4	0.287	0.144	
Phenanthrene	25.8 B	0.287	0.144	
Anthracene	4.36	0.287	0.144	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-032-001 (5'-6')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID:	BR060713-04-D	Matrix:	Soil
File ID:	E071424 D	Preservation:	None
Date Sampled:	7/11/2006	Decanted:	None
Date Received:	7/13/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.54
Date Cleanup:	NA	Percent Solid:	45%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l)	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	30.6	0.287	0.144	
C2 - Phenanthrene/Anthracene	24.9	0.287	0.144	
C3 - Phenanthrene/Anthracene	12.1	0.287	0.144	
C4 - Phenanthrene/Anthracene	4.65	0.287	0.144	
Dibenzothiophene	5.16	0.287	0.144	
C1 - Dibenzothiophene	14.2	0.287	0.144	
C2 - Dibenzothiophene	17.0	0.287	0.144	
C3 - Dibenzothiophene	12.3	0.287	0.144	
C4 - Dibenzothiophene	5.59	0.287	0.144	
Benzo(b)naphtho(2-1-d)thiophene	2.44	0.287	0.144	
Fluoranthene	26.8	0.287	0.144	
Pyrene	22.9	0.287	0.144	
C1 - Fluoranthene/Pyrene	12.5	0.287	0.144	
C2 - Fluoranthene/Pyrene	7.08	0.287	0.144	
C3 - Fluoranthene/Pyrene	4.14	0.287	0.144	
Benz[a]anthracene	10.2	0.287	0.144	
Chrysene*	13.2	0.287	0.144	
C1 - Benz(a)anthracene/Chrysene	5.4	0.287	0.144	
C2 - Benz(a)anthracene/Chrysene	3.88	0.287	0.144	
C3 - Benz(a)anthracene/Chrysene	2.42	0.287	0.144	
C4 - Benz(a)anthracene/Chrysene	1.56	0.287	0.144	
Benzo[b]fluoranthene	10.8	0.287	0.144	
Benzo[j/k]fluoranthene	9.49	0.287	0.144	
Benzo(e)pyrene	8.78	0.287	0.144	
Benzo[a]pyrene	10.3	0.287	0.144	
Perylene	2.38	0.287	0.144	
Indeno[1,2,3-cd]pyrene	7.05	0.287	0.144	
Di-benz[a,h]anthracene	1.59	0.287	0.144	
Benzo[g,h,i]perylene	6.6	0.287	0.144	
Coronene	1.45	0.287	0.144	
Retene	3.36	0.287	0.144	
Benzo(b/c)fluorenes	2.54	0.287	0.144	
2-Methylpyrene	1.63	0.287	0.144	
4-Methylpyrene	1.48	0.287	0.144	
1-Methylpyrene	1.18	0.287	0.144	
Heptadecane	U	0.287	0.144	
Pristane	116	0.287	0.144	
Octadecane	U	0.287	0.144	
Phytane	74.5	0.287	0.144	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-032-001 (5'-6')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-04-D	Matrix:	Soil
File ID:	E071424.D	Preservation:	None
Date Sampled:	7/11/2006	Decanted:	None
Date Received:	7/13/2006		
Date Prepared:	7/13/2006	Sample Size (g)	1.54
Date Cleanup	NA	Percent Solid:	45%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument	EI Camino	Prep DF	1.00
Operator:	JAR	Analysis DF	10.00
		Injection Volume ( $\mu$ l)	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	45.7	0.287	0.144	
2,6,10-trimethyltridecane	60.4	0.287	0.144	
Norpristane	57.7	0.287	0.144	
Total PAH (16)	159	0.287	0.144	
Total PAH (42)	582	0.287	0.144	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	67	Limits
Phenanthrene-d10	78	50 - 120
Perylene-d12	105	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract

E - Estimate, result detected above calibration range

I - Concentration/Peak ID uncertain due to potential interference

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

\* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-032-002 (13'-14')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-05-D	Matrix	Soil
File ID	E071425.D	Preservation	None
Date Sampled	7/11/2006	Decanted.	None
Date Received	7/13/2006		
Date Prepared	7/13/2006	Sample Size (g):	1.66
Date Cleanup:	NA	Percent Solid:	56%
Date Analyzed:	7/15/2006	Extract Volume (µl):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
<b>MAH &amp; PAH COMPOUNDS:</b>				
Benzene	15.1	2.14	1.07	
Toluene	6.99	2.14	1.07	
Ethylbenzene	180	0.428	0.214	
m/p-Xylenes	88.6	0.428	0.214	
Styrene	7.17	0.428	0.214	
o-Xylene	70.7	0.428	0.214	
Isopropylbenzene	32.3	0.428	0.214	
n-Propylbenzene	12.7	0.428	0.214	
1,3,5-Trimethylbenzene	39.6	0.428	0.214	
1,2,4-Trimethylbenzene	148	0.428	0.214	
t-Butylbenzene	U	0.428	0.214	
sec-Butylbenzene	1.24	0.428	0.214	
p-Isopropyltoluene	29.5	0.428	0.214	
n-Butylbenzene	16.4	0.428	0.214	
C1 - Benzene	4.28	2.14	1.07	
C2 - Benzene	142	0.428	0.214	
C3 - Benzene	195	0.428	0.214	
C4 - Benzene	233	0.428	0.214	
C5 - Benzene	84.4	0.428	0.214	
trans-Decalin	2.48	0.428	0.214	
cis-Decalin	0.560	0.428	0.214	
Naphthalene	1,770 D	0.428	0.214	
2-Methylnaphthalene	1,790 D	0.428	0.214	
1-Methylnaphthalene	1,180 D	0.428	0.214	
C1 - Naphthalene	1,830 D	0.428	0.214	
C2 - Naphthalene	1,590	0.428	0.214	
C3 - Naphthalene	670	0.428	0.214	
C4 - Naphthalene	194	0.428	0.214	
Acenaphthylene	115	0.428	0.214	
Acenaphthene	799	0.428	0.214	
Dibenzofuran	46.6	0.428	0.214	
Fluorene	361	0.428	0.214	
C1 - Fluorene	387	0.428	0.214	
C2 - Fluorene	331	0.428	0.214	
C3 - Fluorene	129	0.428	0.214	
Phenanthrene	988 DB	0.428	0.214	
Anthracene	350 D	0.428	0.214	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-032-002 (13'-14')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-05-D		
File ID:	E071425 D	Matrix	Soil
		Preservation	None
Date Sampled:	7/11/2006	Decanted:	None
Date Received:	7/13/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.66
Date Cleanup:	NA	Percent Solid:	56%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	1,210	0.428	0.214	
C2 - Phenanthrene/Anthracene	639	0.428	0.214	
C3 - Phenanthrene/Anthracene	212	0.428	0.214	
C4 - Phenanthrene/Anthracene	55.0	0.428	0.214	
Dibenzothiophene	136	0.428	0.214	
C1 - Dibenzothiophene	230	0.428	0.214	
C2 - Dibenzothiophene	195	0.428	0.214	
C3 - Dibenzothiophene	96.8	0.428	0.214	
C4 - Dibenzothiophene	30.6	0.428	0.214	
Benzo(b)naphtho(2,1-d)thiophene	51.9	0.428	0.214	
Fluoranthene	273	0.428	0.214	
Pyrene	451	0.428	0.214	
C1 - Fluoranthene/Pyrene	776	0.428	0.214	
C2 - Fluoranthene/Pyrene	354	0.428	0.214	
C3 - Fluoranthene/Pyrene	136	0.428	0.214	
Benz[a]anthracene	212	0.428	0.214	
Chrysene*	225	0.428	0.214	
C1 - Benz(a)anthracene/Chrysene	281	0.428	0.214	
C2 - Benz(a)anthracene/Chrysene	142	0.428	0.214	
C3 - Benz(a)anthracene/Chrysene	51.4	0.428	0.214	
C4 - Benz(a)anthracene/Chrysene	22.6	0.428	0.214	
Benzo[b]fluoranthene	60.3	0.428	0.214	
Benzo[ <i>f</i> ]fluoranthene	75.5	0.428	0.214	
Benzo(e)pyrene	79.3	0.428	0.214	
Benzo[a]pyrene	142	0.428	0.214	
Perylene	20.8	0.428	0.214	
Indeno[1,2,3-cd]pyrene	42.8	0.428	0.214	
Dibenzo[a,h]anthracene	17.6	0.428	0.214	
Benzo[g,h,i]perylene	41.6	0.428	0.214	
Coronene	7.43	0.428	0.214	
Retene	29.7	0.428	0.214	
Benzo(b/c)fluorenes	88.5	0.428	0.214	
2-Methylpyrene	102	0.428	0.214	
4-Methylpyrene	105	0.428	0.214	
1-Methylpyrene	123	0.428	0.214	
Heptadecane	U	0.428	0.214	
Pristane	48.8	0.428	0.214	
Octadecane	U	0.428	0.214	
Phytane	35.0	0.428	0.214	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-032-002 (13'-14')**

Client Project:	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s):	NA
		Analysis Method	EPA 8270M
Lab ID	BR060713-05-D	Matrix:	Soil
File ID:	E071425.D	Preservation:	None
Date Sampled:	7/11/2006	Decanted:	None
Date Received:	7/13/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.66
Date Cleanup:	NA	Percent Solid:	56%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument Operator:	EI Camino JAR	Prep DF:	1.00
		Analysis DF:	20.00
		Injection Volume ( $\mu$ l)	1.00
Batch QC	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	20.9	0.428	0.214	
2,6,10-trimethyltridecane	35.1	0.428	0.214	
Norpristane	31.3	0.428	0.214	
Total PAH (16)	U	0.428	0.214	
Total PAH (42)	U	0.428	0.214	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	69	Limits
Phenanthrene-d10	82	50 - 120
Perlylene-d12	198	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

\* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-035-001 (8'-9')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-06-D		
File ID:	E071426.D	Matrix:	Soil
		Preservation:	None
Date Sampled	7/11/2006	Decanted	None
Date Received:	7/13/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.52
Date Cleanup:	NA	Percent Solid:	53%
Date Analyzed:	7/15/2006	Extract Volume (µl):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS				
Benzene	2.18	1.25	0.625	
Toluene	3.35	1.25	0.625	
Ethylbenzene	21.2	0.250	0.125	
m/p-Xylenes	12.2	0.250	0.125	
Styrene	1.76	0.250	0.125	
o-Xylene	7.03	0.250	0.125	
Isopropylbenzene	3.45	0.250	0.125	
n-Propylbenzene	1.37	0.250	0.125	
1,3,5-Trimethylbenzene	4.37	0.250	0.125	
1,2,4-Trimethylbenzene	16.1	0.250	0.125	
t-Butylbenzene	U	0.250	0.125	
sec-Butylbenzene	0.330	0.250	0.125	
p-Isopropyltoluene	6.15	0.250	0.125	
n-Butylbenzene	4.31	0.250	0.125	
C1 - Benzene	2.1	1.25	0.625	
C2 - Benzene	16.6	0.250	0.125	
C3 - Benzene	21.7	0.250	0.125	
C4 - Benzene	26.8	0.250	0.125	
C5 - Benzene	12.8	0.250	0.125	
trans-Decalin	5.0	0.250	0.125	
cis-Decalin	0.353	0.250	0.125	
Naphthalene	386	0.250	0.125	
2-Methylnaphthalene	310	0.250	0.125	
1-Methylnaphthalene	213	0.250	0.125	
C1 - Naphthalene	322	0.250	0.125	
C2 - Naphthalene	228	0.250	0.125	
C3 - Naphthalene	103	0.250	0.125	
C4 - Naphthalene	39.1	0.250	0.125	
Acenaphthylene	22.3	0.250	0.125	
Acenaphthene	175	0.250	0.125	
Dibenzofuran	8.06	0.250	0.125	
Fluorene	76.9	0.250	0.125	
C1 - Fluorene	57.0	0.250	0.125	
C2 - Fluorene	43.4	0.250	0.125	
C3 - Fluorene	17.7	0.250	0.125	
Phenanthrene	220 B	0.250	0.125	
Anthracene	83.4	0.250	0.125	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** **PCS-RSB-035-001 (8'-9')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-06-D	Matrix:	Soil
File ID:	E071426 D	Preservation:	None
Date Sampled:	7/11/2006	Decanted:	None
Date Received:	7/13/2006		
Date Prepared:	7/13/2006	Sample Size (g):	1.52
Date Cleanup:	NA	Percent Solid:	53%
Date Analyzed	7/15/2006	Extract Volume (µl)	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	200	0.250	0.125	
C2 - Phenanthrene/Anthracene	97.3	0.250	0.125	
C3 - Phenanthrene/Anthracene	32.0	0.250	0.125	
C4 - Phenanthrene/Anthracene	9.1	0.250	0.125	
Dibenzothiophene	27.7	0.250	0.125	
C1 - Dibenzothiophene	43.6	0.250	0.125	
C2 - Dibenzothiophene	36.8	0.250	0.125	
C3 - Dibenzothiophene	19.7	0.250	0.125	
C4 - Dibenzothiophene	7.01	0.250	0.125	
Benzo(b)naphtho(2,1-d)thiophene	11.8	0.250	0.125	
Fluoranthene	74.9	0.250	0.125	
Pyrene	104	0.250	0.125	
C1 - Fluoranthene/Pyrene	139	0.250	0.125	
C2 - Fluoranthene/Pyrene	56.0	0.250	0.125	
C3 - Fluoranthene/Pyrene	18.6	0.250	0.125	
Benz[a]anthracene	47.5	0.250	0.125	
Chrysene*	48.6	0.250	0.125	
C1 - Benz(a)anthracene/Chrysene	48.5	0.250	0.125	
C2 - Benz(a)anthracene/Chrysene	24.4	0.250	0.125	
C3 - Benz(a)anthracene/Chrysene	9.24	0.250	0.125	
C4 - Benz(a)anthracene/Chrysene	3.5	0.250	0.125	
Benzo[b]fluoranthene	18.1	0.250	0.125	
Benzo[j/k]fluoranthene	21.3	0.250	0.125	
Benzo(e)pyrene	19.5	0.250	0.125	
Benzo[a]pyrene	34.5	0.250	0.125	
Perylene	5.56	0.250	0.125	
Indeno[1,2,3-cd]pyrene	12.8	0.250	0.125	
Dibenz[a,h]anthracene	4.36	0.250	0.125	
Benzo[g,h,i]perylene	11.9	0.250	0.125	
Coronene	2.4	0.250	0.125	
Retene	8.44	0.250	0.125	
Benzo(b/c)fluorenes	18.8	0.250	0.125	
2-Methylpyrene	16.2	0.250	0.125	
4-Methylpyrene	18.4	0.250	0.125	
1-Methylpyrene	20.9	0.250	0.125	
Heptadecane	7.27	0.250	0.125	
Pristane	79.0	0.250	0.125	
Octadecane	3.89	0.250	0.125	
Phytane	49.6	0.250	0.125	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-035-001 (8'-9')

Client Project:	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s)	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060713-06-D		
File ID	E071426.D	Matrix:	Soil
Date Sampled:	7/11/2006	Preservation:	None
Date Received:	7/13/2006	Decanted:	None
Date Prepared:	7/13/2006	Sample Size (g):	1.52
Date Cleanup:	NA	Percent Solid:	53%
Date Analyzed:	7/15/2006	Extract Volume ( $\mu$ l):	2000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060713-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	28.8	0.250	0.125	
2,6,10-trimethyltridecane	50.0	0.250	0.125	
Norpristane	39.8	0.250	0.125	
Total PAH (16)	1,340	0.250	0.125	
Total PAH (42)	2,960	0.250	0.125	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	64	Limits
Phenanthrene-d10	74	50 - 120
Perylene-d12	116	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

\* - Triphenylene is known to coelute with this compound

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-005B-001 (3.6'-4')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060714-01	Matrix:	Soil
File ID:	E072106.D	Preservation:	None
Date Sampled:	7/13/2006	Decanted:	None
Date Received	7/14/2006		
Date Prepared	7/18/2006	Sample Size (g):	2.10
Date Cleanup	NA	Percent Solid:	50%
Date Analyzed	7/21/2006	Extract Volume ( $\mu$ l):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060718-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
<b>MAH &amp; PAH COMPOUNDS:</b>				
Benzene	0.689	0.237	0.118	
Toluene	2.63	0.237	0.118	
Ethylbenzene	2.19	0.047	0.024	
m/p-Xylenes	6.37	0.047	0.024	
Styrene	0.250 B	0.047	0.024	
o-Xylene	1.49	0.047	0.024	
Isopropylbenzene	0.219	0.047	0.024	
n-Propylbenzene	0.377	0.047	0.024	
1,3,5-Trimethylbenzene	2.3	0.047	0.024	
1,2,4-Trimethylbenzene	4.54	0.047	0.024	
t-Butylbenzene	0.605	0.047	0.024	
sec-Butylbenzene	0.233	0.047	0.024	
p-Isopropyltoluene	1.5	0.047	0.024	
n-Butylbenzene	1.1	0.047	0.024	
C1 - Benzene	1.62	0.237	0.118	
C2 - Benzene	4.55	0.047	0.024	
C3 - Benzene	5.28	0.047	0.024	
C4 - Benzene	5.76	0.047	0.024	
C5 - Benzene	7.17	0.047	0.024	
trans-Decalin	4.49	0.047	0.024	
cis-Decalin	0.361	0.047	0.024	
Naphthalene	301 D	0.047	0.024	
2-Methylnaphthalene	156 D	0.047	0.024	
1-Methylnaphthalene	73.8 D	0.047	0.024	
C1 - Naphthalene	143 D	0.047	0.024	
C2 - Naphthalene	37.2	0.047	0.024	
C3- Naphthalene	36.2	0.047	0.024	
C4- Naphthalene	24.3	0.047	0.024	
Acenaphthylene	1.41	0.047	0.024	
Acenaphthene	134 D	0.047	0.024	
Dibenzofuran	56.5	0.047	0.024	
Fluorene	45.6	0.047	0.024	
C1 - Fluorene	7.31	0.047	0.024	
C2 - Fluorene	10.0	0.047	0.024	
C3 - Fluorene	7.76	0.047	0.024	
Phenanthrene	54.1	0.047	0.024	
Anthracene	6.26	0.047	0.024	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** **PCS-RSB-005B-001 (3.6'-4')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
Lab ID	BR060714-01	Analysis Method:	EPA 8270M
File ID:	E072106.D	Matrix:	Soil
Date Sampled:	7/13/2006	Preservation:	None
Date Received:	7/14/2006	Decanted:	None
Date Prepared	7/18/2006	Sample Size (g)	2.10
Date Cleanup	NA	Percent Solid	50%
Date Analyzed:	7/21/2006	Extract Volume ( $\mu$ l)	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
Batch QC:	BR060718-SB	Injection Volume ( $\mu$ l):	1.00

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	19.4	0.047	0.024	
C2 - Phenanthrene/Anthracene	14.4	0.047	0.024	
C3 - Phenanthrene/Anthracene	7.54	0.047	0.024	
C4 - Phenanthrene/Anthracene	3.21	0.047	0.024	
Dibenzothiophene	4.93	0.047	0.024	
C1 - Dibenzothiophene	7.12	0.047	0.024	
C2 - Dibenzothiophene	8.56	0.047	0.024	
C3 - Dibenzothiophene	6.72	0.047	0.024	
C4 - Dibenzothiophene	3.26	0.047	0.024	
Benzo(b)naphtho(2,1-d)thiophene	1.8	0.047	0.024	
Fluoranthene	38.1	0.047	0.024	
Pyrene	28.3	0.047	0.024	
C1 - Fluoranthene/Pyrene	11.7	0.047	0.024	
C2 - Fluoranthene/Pyrene	4.82	0.047	0.024	
C3 - Fluoranthene/Pyrene	2.76	0.047	0.024	
Benz[a]anthracene	9.47	0.047	0.024	
Chrysene	8.9	0.047	0.024	
C1 - Benz(a)anthracene/Chrysene	3.65	0.047	0.024	
C2 - Benz(a)anthracene/Chrysene	2.22	0.047	0.024	
C3 - Benz(a)anthracene/Chrysene	1.55	0.047	0.024	
C4 - Benz(a)anthracene/Chrysene	1.14	0.047	0.024	
Benzo[b]fluoranthene	6.56	0.047	0.024	
Benzo[j/k]fluoranthene	5.77	0.047	0.024	
Benzo(e)pyrene	5.07	0.047	0.024	
Benzo[a]pyrene	6.31	0.047	0.024	
Perylene	1.4	0.047	0.024	
Indeno[1,2,3-cd]pyrene	3.98	0.047	0.024	
Dibenzo[a,h]anthracene	0.904	0.047	0.024	
Benzo[g,h,i]perylene	3.79	0.047	0.024	
Coronene	0.914	0.047	0.024	
Retene	2.06	0.047	0.024	
Benzo(b/c)fluorenes	2.87	0.047	0.024	
2-Methylpyrene	1.28	0.047	0.024	
4-Methylpyrene	1.05	0.047	0.024	
1-Methylpyrene	0.916	0.047	0.024	
Heptadecane	U	0.047	0.024	
Pristane	58.6	0.047	0.024	
Octadecane	U	0.047	0.024	
Phytane	37.7	0.047	0.024	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID: PCS-RSB-005B-001 (3.6'-4')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID:	BR060714-01		
File ID:	E072106.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	7/13/2006	Decanted:	None
Date Received:	7/14/2006		
Date Prepared:	7/18/2006	Sample Size (g):	2.10
Date Cleanup:	NA	Percent Solid:	50%
Date Analyzed	7/21/2006	Extract Volume ( $\mu$ l):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060718-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	26.4	0.047	0.024	
2,6,10-trimethyltridecane	35.0	0.047	0.024	
Norpristane	27.9	0.047	0.024	
Total PAH (16)	U	0.047	0.024	
Total PAH (42)	U	0.047	0.024	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	68	Limits
Phenanthrene-d10	92	50 - 120
Perylene-d12	113	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

\* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-005B-002 (8'-9.3')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060714-02	Matrix:	Soil
File ID	E072108.D	Preservation:	None
Date Sampled:	7/13/2006	Decanted:	None
Date Received:	7/14/2006		
Date Prepared:	7/18/2006	Sample Size (g):	2.17
Date Cleanup:	NA	Percent Solid:	48%
Date Analyzed:	7/22/2006	Extract Volume ( $\mu$ l):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060718-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS.				
Benzene	2.01	0.238	0.119	
Toluene	4.31	0.238	0.119	
Ethylbenzene	18.6	0.048	0.024	
m/p-Xylenes	9.28	0.048	0.024	
Styrene	5.88 B	0.048	0.024	
o-Xylene	4.56	0.048	0.024	
Isopropylbenzene	5.62	0.048	0.024	
n-Propylbenzene	1.91	0.048	0.024	
1,3,5-Trimethylbenzene	5.19	0.048	0.024	
1,2,4-Trimethylbenzene	27.1	0.048	0.024	
t-Butylbenzene	U	0.048	0.024	
sec-Butylbenzene	0.208	0.048	0.024	
p-Isopropyltoluene	5.33	0.048	0.024	
n-Butylbenzene	2.35	0.048	0.024	
C1 - Benzene	2.69	0.238	0.119	
C2 - Benzene	13.7	0.048	0.024	
C3 - Benzene	33.2	0.048	0.024	
C4 - Benzene	41.6	0.048	0.024	
C5 - Benzene	10.2	0.048	0.024	
trans-Decalin	0.944	0.048	0.024	
cis-Decalin	U	0.048	0.024	
Naphthalene	687 D	0.048	0.024	
2-Methylnaphthalene	728 D	0.048	0.024	
1-Methylnaphthalene	465 D	0.048	0.024	
C1 - Naphthalene	735 D	0.048	0.024	
C2 - Naphthalene	429 D	0.048	0.024	
C3- Naphthalene	109	0.048	0.024	
C4- Naphthalene	19.3	0.048	0.024	
Acenaphthylene	32.5	0.048	0.024	
Acenaphthene	461 D	0.048	0.024	
Dibenzofuran	15.6	0.048	0.024	
Fluorene	216 D	0.048	0.024	
C1 - Fluorene	104	0.048	0.024	
C2 - Fluorene	46.0	0.048	0.024	
C3 - Fluorene	12.6	0.048	0.024	
Phenanthrene	643 D	0.048	0.024	
Anthracene	264 D	0.048	0.024	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID:** **PCS-RSB-005B-002 (8'-9.3')**

Client Project:	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060714-02	Matrix	Soil
File ID	E072108.D	Preservation:	None
Date Sampled:	7/13/2006	Decanted:	None
Date Received:	7/14/2006		
Date Prepared:	7/18/2006	Sample Size (g):	2.17
Date Cleanup:	NA	Percent Solid:	48%
Date Analyzed:	7/22/2006	Extract Volume (µl):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR060718-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	442	D	0.048	0.024
C2 - Phenanthrene/Anthracene	119		0.048	0.024
C3 - Phenanthrene/Anthracene	28.3		0.048	0.024
C4 - Phenanthrene/Anthracene	7.92		0.048	0.024
Dibenzothiophene	36.8		0.048	0.024
C1 - Dibenzothiophene	47.3		0.048	0.024
C2 - Dibenzothiophene	30.6		0.048	0.024
C3 - Dibenzothiophene	11.5		0.048	0.024
C4 - Dibenzothiophene	2.8		0.048	0.024
Benzo(b)naphtho(2,1-d)thiophene	13.5		0.048	0.024
Fluoranthene	190	D	0.048	0.024
Pyrene	313	D	0.048	0.024
C1 - Fluoranthene/Pyrene	267		0.048	0.024
C2 - Fluoranthene/Pyrene	75.4		0.048	0.024
C3 - Fluoranthene/Pyrene	17.5		0.048	0.024
Benz[a]anthracene	91.3		0.048	0.024
Chrysene*	83.8		0.048	0.024
C1 - Benz(a)anthracene/Chrysene	74.1		0.048	0.024
C2 - Benz(a)anthracene/Chrysene	24.9		0.048	0.024
C3 - Benz(a)anthracene/Chrysene	6.4		0.048	0.024
C4 - Benz(a)anthracene/Chrysene	2.26		0.048	0.024
Benzo[b]fluoranthene	29.8		0.048	0.024
Benzo[j/k]fluoranthene	38.6		0.048	0.024
Benzo(e)pyrene	37.6		0.048	0.024
Benzo[a]pyrene	75.4		0.048	0.024
Perylene	9.8		0.048	0.024
Indeno[1,2,3-cd]pyrene	24.2		0.048	0.024
Dibenz[a,h]anthracene	8.35		0.048	0.024
Benzo[g,h,i]perylene	23.1		0.048	0.024
Coronene	3.94		0.048	0.024
Retene	16.3		0.048	0.024
Benzo(b/c)fluorenes	38.0		0.048	0.024
2-Methylpyrene	32.4		0.048	0.024
4-Methylpyrene	31.3		0.048	0.024
1-Methylpyrene	37.4		0.048	0.024
Heptadecane	1.4		0.048	0.024
Pristane	6.1		0.048	0.024
Octadecane	1.15		0.048	0.024
Phytane	3.77		0.048	0.024

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** **PCS-RSB-005B-002 (8'-9.3')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060714-02		
File ID:	E072108.D	Matrix:	Soil
Date Sampled:	7/13/2006	Preservation:	None
Date Received:	7/14/2006	Decanted:	None
Date Prepared:	7/18/2006	Sample Size (g):	2.17
Date Cleanup:	NA	Percent Solid:	48%
Date Analyzed:	7/22/2006	Extract Volume ( $\mu$ l):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume ( $\mu$ l)	1.00
Batch QC	BR060718-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	2.68	0.048	0.024	
2,6,10-trimethyltridecane	3.98	0.048	0.024	
Norpristane	4.29	0.048	0.024	
Total PAH (16)	U	0.048	0.024	
Total PAH (42)	U	0.048	0.024	

*Extraction Surrogate Recoveries (%)*

		Limits
Toluene-d8	70	50 - 120
Phenanthrene-d10	91	50 - 120
Perylene-d12	133	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

\* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-040B-001 (10'-10.5')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060714-03	Matrix:	Soil
File ID:	E072109.D	Preservation:	None
Date Sampled:	7/13/2006	Decanted:	None
Date Received:	7/14/2006		
Date Prepared	7/18/2006	Sample Size (g):	2.16
Date Cleanup:	NA	Percent Solid:	42%
Date Analyzed:	7/22/2006	Extract Volume ( $\mu$ l):	5000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060718-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS:				
Benzene	0.698	0.277	0.138	
Toluene	2.86	0.277	0.138	
Ethylbenzene	0.443	0.055	0.028	
m/p-Xylenes	3.77	0.055	0.028	
Styrene	0.224 B	0.055	0.028	
o-Xylene	0.399	0.055	0.028	
Isopropylbenzene	0.112	0.055	0.028	
n-Propylbenzene	0.491	0.055	0.028	
1,3,5-Trimethylbenzene	0.685	0.055	0.028	
1,2,4-Trimethylbenzene	1.93	0.055	0.028	
t-Butylbenzene	U	0.055	0.028	
sec-Butylbenzene	0.393	0.055	0.028	
p-Isopropyltoluene	2.46	0.055	0.028	
n-Butylbenzene	1.97	0.055	0.028	
C1 - Benzene	1.77	0.277	0.138	
C2 - Benzene	2.1	0.055	0.028	
C3 - Benzene	2.52	0.055	0.028	
C4 - Benzene	7.85	0.055	0.028	
C5 - Benzene	10.6	0.055	0.028	
trans-Decalin	8.64	0.055	0.028	
cis-Decalin	0.591	0.055	0.028	
Naphthalene	1.74	0.055	0.028	
2-Methylnaphthalene	9.33	0.055	0.028	
1-Methylnaphthalene	5.56	0.055	0.028	
C1 - Naphthalene	9.16	0.055	0.028	
C2 - Naphthalene	35.6	0.055	0.028	
C3- Naphthalene	45.3	0.055	0.028	
C4- Naphthalene	29.5	0.055	0.028	
Acenaphthylene	1.48	0.055	0.028	
Acenaphthene	1.23	0.055	0.028	
Dibenzofuran	1.49	0.055	0.028	
Fluorene	2.62	0.055	0.028	
C1 - Fluorene	6.02	0.055	0.028	
C2 - Fluorene	10.1	0.055	0.028	
C3 - Fluorene	8.42	0.055	0.028	
Phenanthrene	13.3	0.055	0.028	
Anthracene	2.63	0.055	0.028	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-040B-001 (10'-10.5')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060714-03		
File ID:	E072109.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	7/13/2006	Decanted:	None
Date Received:	7/14/2006		
Date Prepared:	7/18/2006	Sample Size (g):	2.16
Date Cleanup:	NA	Percent Solid:	42%
Date Analyzed:	7/22/2006	Extract Volume (µl):	5000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC	BR060718-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	19.1	0.055	0.028	
C2 - Phenanthrene/Anthracene	19.0	0.055	0.028	
C3 - Phenanthrene/Anthracene	11.1	0.055	0.028	
C4 - Phenanthrene/Anthracene	5.83	0.055	0.028	
Dibenzothiophene	3.05	0.055	0.028	
C1 - Dibenzothiophene	8.69	0.055	0.028	
C2 - Dibenzothiophene	11.7	0.055	0.028	
C3 - Dibenzothiophene	9.44	0.055	0.028	
C4 - Dibenzothiophene	4.73	0.055	0.028	
Benzo(b)naphtho(2.1-d)thiophene	1.44	0.055	0.028	
Fluoranthene	13.1	0.055	0.028	
Pyrene	12.0	0.055	0.028	
C1 - Fluoranthene/Pyrene	8.56	0.055	0.028	
C2 - Fluoranthene/Pyrene	5.33	0.055	0.028	
C3 - Fluoranthene/Pyrene	3.33	0.055	0.028	
Benz[a]anthracene	4.99	0.055	0.028	
Chrysene*	6.55	0.055	0.028	
C1 - Benz(a)anthracene/Chrysene	3.53	0.055	0.028	
C2 - Benz(a)anthracene/Chrysene	2.77	0.055	0.028	
C3 - Benz(a)anthracene/Chrysene	1.92	0.055	0.028	
C4 - Benz(a)anthracene/Chrysene	1.27	0.055	0.028	
Benzo[b]fluoranthene	4.87	0.055	0.028	
Benzo[j/k]fluoranthene	4.12	0.055	0.028	
Benzo(e)pyrene	4.05	0.055	0.028	
Benzo[a]pyrene	4.62	0.055	0.028	
Perylene	0.918	0.055	0.028	
Indeno[1,2,3-cd]pyrene	3.41	0.055	0.028	
Dibenz[a,h]anthracene	0.826	0.055	0.028	
Benzo[g,h,i]perylene	3.23	0.055	0.028	
Coronene	0.762	0.055	0.028	
Retene	8.58	0.055	0.028	
Benzo(b/c)fluorenes	1.56	0.055	0.028	
2-Methylpyrene	1.22	0.055	0.028	
4-Methylpyrene	1.23	0.055	0.028	
1-Methylpyrene	0.913	0.055	0.028	
Heptadecane	9.22	0.055	0.028	
Pristane	85.0	0.055	0.028	
Octadecane	4.8	0.055	0.028	
Phytane	56.7	0.055	0.028	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-040B-001 (10'-10.5')**

Client Project:	Burns & McDonnell Pitney Court	Preparation Method:	EPA 3570
		Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID:	BR060714-03	Matrix:	Soil
File ID:	E072109.D	Preservation:	None
Date Sampled:	7/13/2006	Decanted:	None
Date Received:	7/14/2006		
Date Prepared:	7/18/2006	Sample Size (g):	2.16
Date Cleanup:	NA	Percent Solid:	42%
Date Analyzed:	7/22/2006	Extract Volume ( $\mu$ l):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060718-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	32.1	0.055	0.028	
2,6,10-trimethyltridecane	55.8	0.055	0.028	
Norpristane	43.6	0.055	0.028	
Total PAH (16)	80.7	0.055	0.028	
Total PAH (42)	351	0.055	0.028	

*Extraction Surrogate Recoveries (%)*

Toluene-d8	68	Limits 50 - 120
Phenanthrene-d10	89	50 - 120
Perylene-d12	109	50 - 120

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

\* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-042B-001 (7.5'-8.0')**

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060718-01	Matrix:	Soil
File ID	E072110.D	Preservation:	None
Date Sampled:	7/14/2006	Decanted:	None
Date Received:	7/18/2006		
Date Prepared	7/18/2006	Sample Size (g):	2 14
Date Cleanup:	NA	Percent Solid:	34%
Date Analyzed:	7/22/2006	Extract Volume ( $\mu$ l):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume ( $\mu$ l):	1.00
Batch QC:	BR060718-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS:				
Benzene	1.08	0.344	0.172	
Toluene	1.89	0.344	0.172	
Ethylbenzene	0.338	0.069	0.034	
m/p-Xylenes	3.03	0.069	0.034	
Styrene	0.234 B	0.069	0.034	
o-Xylene	0.287	0.069	0.034	
Isopropylbenzene	0.182	0.069	0.034	
n-Propylbenzene	0.706	0.069	0.034	
1,3,5-Trimethylbenzene	0.154	0.069	0.034	
1,2,4-Trimethylbenzene	1.15	0.069	0.034	
t-Butylbenzene	U	0.069	0.034	
sec-Butylbenzene	0.491	0.069	0.034	
p-Isopropyltoluene	1.6	0.069	0.034	
n-Butylbenzene	2.25	0.069	0.034	
C1 - Benzene	1.18	0.344	0.172	
C2 - Benzene	1.68	0.069	0.034	
C3 - Benzene	1.61	0.069	0.034	
C4 - Benzene	6.2	0.069	0.034	
C5 - Benzene	7.95	0.069	0.034	
trans-Decalin	10.5	0.069	0.034	
cis-Decalin	0.674	0.069	0.034	
Naphthalene	2.9	0.069	0.034	
2-Methylnaphthalene	4.19	0.069	0.034	
1-Methylnaphthalene	2.75	0.069	0.034	
C1 - Naphthalene	4.28	0.069	0.034	
C2 - Naphthalene	10.8	0.069	0.034	
C3 - Naphthalene	13.1	0.069	0.034	
C4 - Naphthalene	9.7	0.069	0.034	
Acenaphthylene	0.968	0.069	0.034	
Acenaphthene	1.63	0.069	0.034	
Dibenzofuran	1.47	0.069	0.034	
Fluorene	3.12	0.069	0.034	
C1 - Fluorene	3.1	0.069	0.034	
C2 - Fluorene	5.6	0.069	0.034	
C3 - Fluorene	6.13	0.069	0.034	
Phenanthrene	15.7	0.069	0.034	
Anthracene	3.56	0.069	0.034	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID:** PCS-RSB-042B-001 (7.5'-8.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Pitney Court	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR060718-01	Matrix:	Soil
File ID:	E072110.D	Preservation:	None
Date Sampled:	7/14/2006	Decanted:	None
Date Received:	7/18/2006	Sample Size (g):	2.14
Date Prepared	7/18/2006	Percent Solid:	34%
Date Cleanup:	NA	Extract Volume (µl):	5000
Date Analyzed:	7/22/2006	Prep DF:	1.00
Instrument:	EI Camino	Analysis DF:	1.00
Operator	JAR	Injection Volume (µl):	1.00
Batch QC:	BR060718-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	13.7	0.069	0.034	
C2 - Phenanthrene/Anthracene	15.0	0.069	0.034	
C3 - Phenanthrene/Anthracene	29.5	0.069	0.034	
C4 - Phenanthrene/Anthracene	63.0	0.069	0.034	
Dibenzothiophene	2.07	0.069	0.034	
C1 - Dibenzothiophene	5.77	0.069	0.034	
C2 - Dibenzothiophene	11.6	0.069	0.034	
C3 - Dibenzothiophene	10.2	0.069	0.034	
C4 - Dibenzothiophene	6.28	0.069	0.034	
Benzo(b)naphtho(2,1-d)thiophene	1.79	0.069	0.034	
Fluoranthene	18.4	0.069	0.034	
Pyrene	15.6	0.069	0.034	
C1 - Fluoranthene/Pyrene	13.2	0.069	0.034	
C2 - Fluoranthene/Pyrene	5.97	0.069	0.034	
C3 - Fluoranthene/Pyrene	3.52	0.069	0.034	
Benz[a]anthracene	6.19	0.069	0.034	
Chrysene*	8.0	0.069	0.034	
C1 - Benz(a)anthracene/Chrysene	4.26	0.069	0.034	
C2 - Benz(a)anthracene/Chrysene	2.94	0.069	0.034	
C3 - Benz(a)anthracene/Chrysene	1.98	0.069	0.034	
C4 - Benz(a)anthracene/Chrysene	1.57	0.069	0.034	
Benzo[b]fluoranthene	5.41	0.069	0.034	
Benzo[j/k]fluoranthene	5.01	0.069	0.034	
Benzo(e)pyrene	4.47	0.069	0.034	
Benzo[a]pyrene	5.54	0.069	0.034	
Perylene	1.15	0.069	0.034	
Indeno[1,2,3-cd]pyrene	3.8	0.069	0.034	
Dibenz[a,h]anthracene	0.990	0.069	0.034	
Benzo[g,h,i]perylene	3.38	0.069	0.034	
Coronene	0.764	0.069	0.034	
Retene	332.0	0.069	0.034	
Benzo(b,c)fluorenes	2.33	0.069	0.034	
2-Methylpyrene	1.31	0.069	0.034	
4-Methylpyrene	1.24	0.069	0.034	
1-Methylpyrene	0.968	0.069	0.034	
Heptadecane	13.8	0.069	0.034	
Pristane	31.7	0.069	0.034	
Octadecane	3.41	0.069	0.034	
Phytane	24.3	0.069	0.034	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

**Field ID: PCS-RSB-042B-001 (7.5'-8.0')**

Client: Project	Burns & McDonnell Pitney Court	Preparation Method: Cleanup Method(s): Analysis Method.	EPA 3570 NA EPA 8270M
Lab ID	BR060718-01		
File ID:	E072110.D	Matrix: Preservation	Soil None
Date Sampled:	7/14/2006	Decanted:	None
Date Received:	7/18/2006		
Date Prepared:	7/18/2006	Sample Size (g):	2.14
Date Cleanup:	NA	Percent Solid:	34%
Date Analyzed:	7/22/2006	Extract Volume ( $\mu$ l):	5000
Instrument:	EI Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
Batch QC:	BR060718-SB	Injection Volume ( $\mu$ l):	1.00

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	13.3	0.069	0.034	
2,6,10-trimethyltridecane	20.6	0.069	0.034	
Norpristane	13.3	0.069	0.034	
Total PAH (16)	100	0.069	0.034	
Total PAH (42)	350	0.069	0.034	

*Extraction Surrogate Recoveries (%)*

		Limits
Toluene-d8	62	50 - 120
Phenanthrene-d10	77	50 - 120
Perylene-d12	97	50 - 120

NA - Not applicable

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

\* - Triphenylene is known to coelute with this compound.

# **Appendix D**

## **Abbreviated Preliminary Assessment Checklist**

## ABBREVIATED PRELIMINARY ASSESSMENT CHECKLIST

This checklist can be used to help the site investigator determine if an Abbreviated Preliminary Assessment (APA) is warranted. This checklist should document the rationale for the decision on whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

**Checklist Preparer:**

JERRY WILLMAN / EPS III  
 (Name/Title)  
 1021 NORTH GRAND AVE EAST  
 (Address)  
 jwillman@illinois.gov  
 (E-Mail Address)

10/1/07  
 (Date)  
 (217) 524-6365  
 (Phone)

**Site Name:** PEOPLE'S GAS PITNEY COURT STATION FORMER MGP

**Previous Names (if any):**

**Site Location:**

3052 PITNEY COURT  
 (Street)  
 CHICAGO , IL 60608  
 (City) (ST) (Zip)

**Latitude:** \_\_\_\_\_ **Longitude:** \_\_\_\_\_

**Describe the release (or potential release) and its probable nature:** COAL TAR , PAHs , VOLATILE ORGANIC MATERIAL FROM MGP OPERATIONS.

### Part 1 - Superfund Eligibility Evaluation

If all answers are "no" go on to Part 2, otherwise proceed to Part 3.

	YES	NO
1. Is the site currently in CERCLIS or an "alias" of another site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is the site being addressed by some other remedial program (Federal, State, or Tribal)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (e.g., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Are the hazardous substances potentially released at the site excluded by policy considerations (i.e., deferred to RCRA corrective action)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is there sufficient documentation to demonstrate that no potential for a release that could cause adverse environmental or human health impacts exists (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance releases have occurred, or an EPA approved risk assessment completed)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Please explain all "yes" answer(s).

The site is on CERCLIS as of 4/12/2007. The site is currently enrolled in Illinois EPA's voluntary program and undergoing a removal action under oversight of USEPA.

## **Part 2 - Initial Site Evaluation**

For Part 2, if information is not available to make a "yes" or "no" response, further investigation may be needed. In these cases, determine whether an APA is appropriate. Exhibit 1 parallels the questions in Part 2. Use Exhibit 1 to make decisions in Part 3.

If the answer is "no" to any of questions 1, 2, or 3, proceed directly to Part 3.	YES	NO
1. Does the site have a release or a potential to release?	X	<input type="checkbox"/>
2. Does the site have uncontaminated sources containing CERCLA eligible substances?	X	<input type="checkbox"/>
3. Does the site have documented on-site, adjacent, or nearby targets?	X	<input type="checkbox"/>

If the answers to questions 1, 2, and 3 above were all "yes" then answer the questions below before proceeding to Part 3.	YES	NO
4. Does documentation indicate that a target (e.g., drinking water wells, drinking surface water intakes, etc.) has been exposed to a hazardous substance released from the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is there an apparent release at the site with no documentation of exposed targets, but there are targets on site or immediately adjacent to the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is there an apparent release and no documented on-site targets or targets immediately adjacent to the site, but there are nearby targets (e.g., targets within 1 mile)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is there no indication of a hazardous substance release, and there are uncontained sources containing CERCLA hazardous substances, but there is a potential to release with targets present on site or in proximity to the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**EXHIBIT 1**  
**SITE ASSESSMENT DECISION GUIDELINES FOR A SITE**

Exhibit 1 identifies different types of site information and provides some possible recommendations for further site assessment activities based on that information. You will use Exhibit 1 in determining the need for further action at the site, based on the answers to the questions in Part 2. Please use your professional judgement when evaluating a site. Your judgement may be different from the general recommendations for a site given below.

Suspected/Documented Site Conditions		APA	Full PA	PA/SI	SI
1. There are no releases or potential to release.		Yes	No	No	No
2. No uncontained sources with CERCLA-eligible substances are present on site.		Yes	No	No	No
3. There are no on-site, adjacent, or nearby targets.		Yes	No	No	No
4. There is documentation indicating that a target (e.g., drinking water wells, drinking surface water intakes, etc.) has been exposed to a hazardous substance released from the site.	Option 1: APA ⇔ SI Option 2: PA/SI	Yes No	No No	No Yes	Yes NA
5. There is an apparent release at the site with no documentation of exposed targets, but there are targets on site or immediately adjacent to the site.	Option 1: APA ⇔ SI Option 2: PA/SI	Yes No	No No	No Yes	Yes NA
6. There is an apparent release and no documented on-site targets and no documented targets immediately adjacent to the site, but there are nearby targets. Nearby targets are those targets that are located within 1 mile of the site and have a relatively high likelihood of exposure to a hazardous substance migration from the site.		No	Yes	No	No
7. There is no indication of a hazardous substance release, and there are uncontained sources containing CERCLA hazardous substances, but there is a potential to release with targets present on site or in proximity to the site.		No	Yes	No	No

**Part 3 - EPA Site Assessment Decision**

When completing Part 3, use Part 2 and Exhibit 1 to select the appropriate decision. For example, if the answer to question 1 in Part 2 was "no," then an APA may be performed and the "NFRAP" box below should be checked. Additionally, if the answer to question 4 in Part 2 is "yes," then you have two options (as indicated in Exhibit 1): Option 1 -- conduct an APA and check the "Lower Priority SI" or "Higher Priority SI" box below; or Option 2 -- proceed with a combined PA/SI assessment.

**Check the box that applies based on the conclusions of the APA:**

- |   |  |
|---|--|
| <input type="checkbox"/> NFRAP                    | <input type="checkbox"/> Refer to Removal Program - further site assessment needed |
| <input type="checkbox"/> Higher Priority SI       | <input type="checkbox"/> Refer to Removal Program - NFRAP                          |
| <input type="checkbox"/> Lower Priority SI        | <input type="checkbox"/> Site is being addressed as part of another CERCLIS site   |
| <input type="checkbox"/> Defer to RCRA Subtitle C | <input type="checkbox"/> Other: _____  |
| <input type="checkbox"/> Defer to NRC             |  |

**Regional EPA Reviewer:**

Print Name/Signature \_\_\_\_\_

Date \_\_\_\_\_